## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – AMBER NIGHT**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Skin Sens. 1 – Skin sensitisation, Hazard Category 1 with assigned phrase H stating the type of hazard:
H317 May cause an allergic skin reaction

Health hazards: product is classified as hazardous to health, eye irritating, skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product isn't classified as hazardous to environment, potentially harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Hazardous Ingredient:** α-hexylcinnamaldehyde

**Allergens at content higher then 1/10 value of classification limit:** coumarin, 3,7-dimethyloctan-3-ol, linalyl acetate

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 101-86-0 | 202-983-3 | not assigned | 01-2119533092-50-xxxx | α-hexylcinnamaldehyde | < 2 % w/w | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2 | H317, 400, 411 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 91-64-5 | 202-086-7 | not assigned | 01-2119943756-26-xxxx | coumarin | < 0,5 % w/w | Acute Tox. 3 (oral), Acute Tox. 3 (derm), Acute Tox. 3 (inh), Skin Sens. 1B, Aquatic Chronic 2 | H301, 311, 331, 317, 411 |
| 78-69-3 | 201-133-9 | not assigned | 01-2119454788-21-xxxx | 3,7-dimethyloctan-3-ol | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 115-95-7 | 204-116-4 | not assigned | 01-2119454789-19-xxxx | linalyl acetate | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |

M-factor for environment hazardous substance (CAS no 101-86-0)
Acute hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.
**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications

EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product is classified as skin sensitizing (hazard category 1). It contains allergens: α-hexylcinnamaldehyde, coumarin, 3,7-dimethyloctan-3-ol, linalyl acetate
**Germ cell mutagenicity**: hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product isn't classified as hazardous to environment, potentially harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment. Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)

*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**

Chemical safety assessment was not made for the product

## SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 3 (oral) Acute Toxicity (swallowing) Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 3 (derm) Acute Toxicity (skin contact) Hazard Category 3
Acute Tox. 3 (inh) Acute Toxicity (inhalation) Hazard Category 3
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H301 Toxic if swallowed

H302 Harmful if swallowed
H311 Toxic in contact with skin
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – AMBER WOOD**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, methyl cedryl ether, coumarin, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one, 7-hydroxycitronellal. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, methyl cedryl ether, coumarin, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one, 7-hydroxycitronellal. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 54464-57-2 | 259-174-3 | nie nadany | brak danych | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 1 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1 | H315, 317, 410 |
| 19870-74-7 | 243-384-7 | nie nadany | 01-2120228335-61-xxxx | methyl cedryl ether | < 1 % w/w | Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1 | H317, 400, 410 |
| 91-64-5 | 202-086-7 | nie nadany | 01-2119943756-26-xxxx | coumarin | < 0,5 % w/w | Acute Tox. 3 (oral), Acute Tox. 3 (derm), Acute Tox. 3 (inh), Skin Sens. 1B, Aquatic Chronic 2 | H301, 311, 331, 317, 411 |
| 33704-61-9 | 251-649-3 | nie nadany | 01-2119977131-40-xxxx | 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one | < 0,2 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2 | H315, 317, 319, 411 |
| 107-75-5 | 203-518-7 | nie nadany | 01-2119973482-31-xxxx | 7-hydroxycitronellal | < 0,2 % w/w | Eye Irrit. 2, Skin Sens. 1B | H317, 319 |

M-factor for environment hazardous substance (CAS no 19870-74-7)
Acute hazard: M = 1
Chronic hazard: M = 1

M-factor for environment hazardous substance (CAS no 54464-57-2)
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits
For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist
**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems

consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**

Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods

EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, methyl cedryl ether, coumarin, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one, 7-hydroxycitronellal at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives

67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

**SECTION 16. OTHER INFORMATION**

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 3 (oral) Acute Toxicity (swallowing), Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 3 (derm) Acute Toxicity (skin contact), Hazard Category 3
Acute Tox. 3 (inh) Acute Toxicity (inhalation), Hazard Category 3
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3

Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in skin contact
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – BLACK NOIR**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Skin Sens. 1 – Skin sensitisation, Hazard Category 1 with assigned phrase H stating the type of hazard:
H317 May cause an allergic skin reaction

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Health hazards: product is classified as hazardous to health, eye irritating, skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Hazardous Ingredient:** isoeugenol

**Allergens at content higher then 1/10 value of classification limit:** linalol, limonen, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 78-70-6 | 201-134-4 | 603-235-00-2 | 01-2119474016-42-xxxx | linalool | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 54464-57-2 | 259-174-3 | not assigned | no data | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 0,5 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1 | H315, 317, 410 |
| 138-86-3 | 205-341-0 | 601-029-00-7 | 01-2119529223-47-xxxx | dipentene / limonene | < 0,5 % w/w | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1 | H226, 304, 315, 317, 400, 410 |
| 97-54-1 | 202-590-7 | 604-094-00-X | no data | isoeugenol | < 0,1 % w/w | Skin Sens. 1A** | H317 |

M-factor for environment hazardous substance (CAS no 54464-57-2)
Chronic hazard: M = 1

M-factor for environment hazardous substance (CAS no 138-86-3)
Acute hazard: M = 1
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits
** - specific concentration limit to classify product as Skin Sens. 1A (H317) is 0,01 % w/w

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.
**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors

and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration

EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product is classified as skin sensitizing (hazard category 1). It contains allergens: isoeugenol, linalool, limonene, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
**Germ cell mutagenicity**: hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

## SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1A Skin Sensitizing, Hazard Category 1A
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – CAESAR**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, linalool, linalyl acetate. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, linalool, linalyl acetate. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 54464-57-2 | 259-174-3 | not assigned | no data | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 0,5 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1 | H315, 317, 410 |
| 115-95-7 | 204-116-4 | not assigned | 01-2119454789-19-xxxx | linalyl acetate | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 78-70-6 | 201-134-4 | 603-235-00-2 | 01-2119474016-42-xxxx | linalool | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 1222-05-5 | 214-946-9 | 603-212-00-7 | 01-2119488227-29-xxxx | 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethy-lindeno[5,6-c]pyran / galaxolid | < 0,5 % w/w | Aquatic Acute 1, Aquatic Chronic 1 | H400, 410 |

M-factor for environment hazardous substance (CAS no 1222-05-5)
Acute hazard: M = 1
Chronic hazard: M = 1

M-factor for environment hazardous substance (CAS no 54464-57-2)
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with

regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration

EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, linalol, linalyl acetate at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to

technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

**SECTION 16. OTHER INFORMATION**

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction

H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – ECSTASY OF EDEN**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Additional hazard:
EUH208 Contains: 3,7-dimethyloctan-3-ol, 3-p-cumenyl-2-methylpropionaldehyde, citral, d-limonene. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product isn't classified as hazardous to environment
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: 3,7-dimethyloctan-3-ol, 3-p-cumenyl-2-methylpropionaldehyde, citral, d-limonene. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 18479-58-8 | 242-362-4 | not assigned | 01-2119457274-37-xxxx | 2,6-dimethyloct-7-en-2-ol | < 1,5 % w/w | Skin Irrit. 2, Eye Irrit. 2 | H315, 319 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 78-69-3 | 201-133-9 | not assigned | 01-2119454788-21-xxxx | 3,7-dimethyloctan-3-ol | < 0,3 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 103-95-7 | 203-161-7 | not assigned | 01-2119970582-32-xxxx | 3-p-cumenyl-2-methylpropion-aldehyde | < 0,2 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2 | H315, 317, 411 |
| 5392-40-5 | 226-394-6 | 605-019-00-3 | 01-2119462829-23-xxxx | citral * | < 0,2 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 5989-27-5 | 227-813-5 | 601-029-00-7 | 01-2119529223-47-xxxx | (R)-p-mentha-1,8-diene / d-limonene | < 0,2 % w/w | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1 | H226, 304, 315, 317, 400, 410 |

M-factor for environment hazardous substance (CAS no 5989-27-5)
Acute hazard: M = 1
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**
The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**
Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

### 4.2. Most important symptoms and effects, both acute and delayed

**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

### 5.2. Special hazards arising from the mixture
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

### 5.3. Advice for fire-fighters
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

### 6.2. Environmental precautions
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

### 6.3. Methods and material for containment and cleaning up
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

### 6.4. Reference to other sections
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8.
Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in

the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |
| 3,7-Dimetylookta-2,6-dienal | 5392-40-5 | 27 | 54 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])

EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: 3,7-dimethyloctan-3-ol, 3-p-cumenyl-2-methylpropionaldehyde, citral, d-limonene at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to

technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

**SECTION 16. OTHER INFORMATION**

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Flam. Liq. 3 Flammable liquids, Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2

H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – FRESH LINEN**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, coumarin, citronellol, [3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one, 4-tert-butylcyclohexyl acetate, geraniol, nopyl acetate, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, linalool, piperonal. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, coumarin, citronellol, [3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one, 4-tert-butylcyclohexyl acetate, geraniol, nopyl acetate, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, linalool, piperonal. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 1222-05-5 | 214-946-9 | 603-212-00-7 | 01-2119488227-29-xxxx | 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethy-lindeno[5,6-c]pyran / galaxolid | < 0,8 % w/w | Aquatic Acute 1, Aquatic Chronic 1 | H400, 410 |
| 127-51-5 | 204-846-3 | not assigned | 01-2120138569-45-xxxx | 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one | < 0,6 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2 | H315, 317, 319, 411 |
| 91-64-5 | 202-086-7 | not assigned | 01-2119943756-26-xxxx | coumarin | < 0,5 % w/w | Acute Tox. 3 (oral), Acute Tox. 3 (derm), Acute Tox. 3 (inh), Skin Sens. 1B, Aquatic Chronic 2 | H301, 311, 331, 317, 411 |
| 106-22-9 | 203-375-0 | not assigned | 01-2119453995-23-xxxx | citronellol | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 32388-55-9 | 251-020-3 | not assigned | 01-2119969651-28-xxxx | [3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | < 0,4 % w/w | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 | H317, 400, 410 |
| 1506-02-1 | 216-133-4 | not assigned | 01-2119539433-40-xxxx | 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one | < 0,4 % w/w | Acute Tox. 4 (oral), Aquatic Acute 1, Aquatic Chronic 1 | H302, 400, 410 |
| 32210-23-4 | 250-954-9 | not assigned | 01-2119976286-24-xxxx | 4-tert-butylcyclohexyl acetate | < 0,4 % w/w | Skin Sens. 1B | H317 |
| 106-24-1 | 203-377-1 | not assigned | 01-2119552430-49-xxxx | geraniol | < 0,3 % w/w | Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1B | H315, 318, 319 |
| 128-51-8 | 204-891-9 | not assigned | no data | nopyl acetate | < 0,3 % w/w | Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2 | H317, 319, 411 |
| 54464-57-2 | 259-174-3 | not assigned | no data | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 0,2 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1 | H315, 317, 410 |
| 78-70-6 | 201-134-4 | 603-235-00-2 | 01-2119474016-42-xxxx | linalool | < 0,2 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 120-57-0 | 204-409-7 | not assigned | 01-2119983608-21-xxxx | piperonal | < 0,2 % w/w | Skin Sens. 1B | H317 |

M-factor for environment hazardous substance (CAS no 1222-05-5, 32388-55-9, 1506-02-1)
Acute hazard: M = 1
Chronic hazard: M = 1
M-factor for environment hazardous substance (CAS no 54464-57-2)

Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

### 4.2. Most important symptoms and effects, both acute and delayed

**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

### 5.2. Special hazards arising from the mixture

The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

### 5.3. Advice for fire-fighters

Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.
**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area

unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

### 6.2. Environmental precautions
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

### 6.3. Methods and material for containment and cleaning up
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

### 6.4. Reference to other sections
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8.
Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

### 7.2. Conditions for safe storage, including any incompatibilities
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.

Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**

**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6

**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, coumarin, citronellol, [3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one, 4-tert-butylcyclohexyl acetate, geraniol, nopyl acetate, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, linalool, piperonal at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity
No data for product

### 12.2. Persistence and degradability
No data for product

### 12.3. Bioaccumulative potential
No data for product

### 12.4. Mobility in soil
No data for product

### 12.5. Results of PBT and vPvB assessment:
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

### 12.6. Other adverse effects
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods:
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.
**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

**SECTION 16. OTHER INFORMATION**

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 3 (oral) Acute Toxicity (swallowing), Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 3 (derm) Acute Toxicity (skin contact), Hazard Category 3
Acute Tox. 3 (inh) Acute Toxicity (inhalation), Hazard Category 3
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in skin contact
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%

UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – FRUITY JUNGLE**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: α-hexylcinnamaldehyde, limonene, 3,7-dimethyloctan-3-ol, allyl hexanoate, linalyl acetate. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: α-hexylcinnamaldehyde, limonene, 3,7-dimethyloctan-3-ol, allyl hexanoate, linalyl acetate. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 103-95-7 | 203-161-7 | not assigned | 01-2119970582-32-xxxx | 3-p-cumenyl-2-methyl-propionaldehyde | < 0,5 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2 | H315, 317, 411 |
| 101-86-0 | 202-983-3 | not assigned | 01-2119533092-50-xxxx | α-hexylcinnamal-dehyde | < 0,5 % w/w | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2 | H317, 400, 411 |
| 138-86-3 | 205-341-0 | 601-029-00-7 | 01-2119529223-47-xxxx | dipentene / limonene | < 0,5 % w/w | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1 | H226, 304, 315, 317, 400, 410 |
| 78-69-3 | 201-133-9 | not assigned | 01-2119454788-21-xxxx | 3,7-dimethyloctan-3-ol | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 123-68-2 | 204-642-4 | not assigned | 01-2119983573-26-xxxx | allyl hexanoate | < 0,5 % w/w | Acute Tox. 3 (oral), Acute Tox. 3 (derm), Acute Tox. 3 (inh), Aquatic Acute 1, Aquatic Chronic 3 | H301, 311, 331, 400, 412 |
| 115-95-7 | 204-116-4 | not assigned | 01-2119454789-19-xxxx | linalyl acetate | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |

M-factor for environment hazardous substance (CAS no 138-86-3)
Acute hazard: M = 1
Chronic hazard: M = 1

M-factor for environment hazardous substance (CAS no 101-86-0, 123-68-2)
Acute hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.
**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement

methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking

EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |

**Oxidising properties:** doesn't concern

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: α-hexylcinnamaldehyde, limonene, 3,7-dimethyloctan-3-ol, allyl hexanoate, linalyl acetate at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

## SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Flam. Liq. 3 Flammable liquids, Hazard Category 3
Acute Tox. 3 (oral) Acute Toxicity (swallowing), Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 3 (derm) Acute Toxicity (skin contact), Hazard Category 3
Acute Tox. 3 (inh) Acute Toxicity (inhalation), Hazard Category 3
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1

Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour
H301 Toxic if swallowed
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H311 Toxic in skin contact
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the

company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – GREEN CONNECTION**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Additional hazard:
EUH208 Contains: 3,7-dimethyloctan-3-ol, linalyl acetate. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product isn't classified as hazardous to environment
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: 3,7-dimethyloctan-3-ol, linalyl acetate. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 78-69-3 | 201-133-9 | not assigned | 01-2119454788-21-xxxx | 3,7-dimethyloctan-3-ol | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 115-95-7 | 204-116-4 | not assigned | 01-2119454789-19-xxxx | linalyl acetate | < 0,2 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 67634-00-8 | 266-803-5 | not assigned | 01-2120795456-39-xxxx | allyl (3-methylbutoxy)acetate | < 0,2 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (derm) STOT RE 2, Aquatic Acute 1 | H302, 312, 373, 400 |

M-factor for environment hazardous substance (CAS no 67634-00-8)
Acute hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**
The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**
Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

### 4.2. Most important symptoms and effects, both acute and delayed

**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect

tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$

PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing

Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**

There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**

Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**

Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**

No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**

Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**

Strong oxidizers

**10.6 Hazardous decomposition products**

Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: 3,7-dimethyloctan-3-ol, linalyl acetate at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product isn't classified as hazardous to environment. In trade form product poses risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)

*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**

Chemical safety assessment was not made for the product

## SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
STOT RE 2 Specific target organ toxicity – Repeated exposure, Hazard Category 2
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H373 May cause damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit

UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – KISS**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene, coumarin, isoeugenol. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene, coumarin, isoeugenol. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 144020-22-4 | 482-330-9 | not assigned | 01-2119445289-30-xxxx | acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene | < 0,5 % w/w | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 | H317, 400, 410 |
| 91-64-5 | 202-086-7 | not assigned | 01-2119943756-26-xxxx | coumarin | < 0,5 % w/w | Acute Tox. 3 (oral), Acute Tox. 3 (derm), Acute Tox. 3 (inh), Skin Sens. 1B, Aquatic Chronic 2 | H301, 311, 331, 317, 411 |
| 97-54-1 | 202-590-7 | 604-094-00-X | no data | isoeugenol | < 0,01 % w/w | Skin Sens. 1A** | H317 |

M-factor for environment hazardous substance (CAS no 144020-22-4)
Acute hazard: M = 1
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits
** - specific concentration limit to classify product as Skin Sens. 1A (H317) is 0,01 % w/w

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications

EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene, coumarin, isoeugenol at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to

technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

**SECTION 16. OTHER INFORMATION**

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 3 (oral) Acute Toxicity (swallowing), Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 3 (derm) Acute Toxicity (skin contact), Hazard Category 3
Acute Tox. 3 (inh) Acute Toxicity (inhalation), Hazard Category 3
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1A Skin Sensitizing, Hazard Category 1A
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in skin contact
H315 Causes skin irritation

H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – MADEMOISELLE CHIC**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: limonene. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: limonene. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 1222-05-5 | 214-946-9 | 603-212-00-7 | 01-2119488227-29-xxxx | 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethy-lindeno[5,6-c]pyran / galaxolid | < 0,5 % w/w | Aquatic Acute 1, Aquatic Chronic 1 | H400, 410 |
| 138-86-3 | 205-341-0 | 601-029-00-7 | 01-2119529223-47-xxxx | dipentene / limonene | < 0,5 % w/w | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1 | H226, 304, 315, 317, 400, 410 |

M-factor for environment hazardous substance (CAS no 138-86-3, 1222-05-5)
Acute hazard: M = 1
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.
**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

### 4.2. Most important symptoms and effects, both acute and delayed

**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very

sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use

EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity
**10.2. Chemical stability**

Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergen: limonene at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product
**12.5. Results of PBT and vPvB assessment:**

The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council

on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

## SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Flam. Liq. 3 Flammable liquids, Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – ORIENTAL DREAM**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, linalool, linalyl acetate, 3,7-dimethyloctan-3-ol, hexyl salicylate, limonene, cinnamaldehyde, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, linalool, linalyl acetate, 3,7-dimethyloctan-3-ol, hexyl salicylate, limonene, cinnamaldehyde, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 34590-94-8 | 252-104-2 | not assigned | 01-2119450011-60-xxxx | (2-methoxymethyl-ethoxy)propanol* | < 5 % w/w | - | - |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 78-70-6 | 201-134-4 | 603-235-00-2 | 01-2119474016-42-xxxx | linalool | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 115-95-7 | 204-116-4 | not assigned | 01-2119454789-19-xxxx | linalyl acetate | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 54464-57-2 | 259-174-3 | not assigned | no data | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 0,5 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1 | H315, 317, 410 |
| 78-69-3 | 201-133-9 | not assigned | 01-2119454788-21-xxxx | 3,7-dimethyloctan-3-ol | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 6259-76-3 | 228-408-6 | not assigned | 01-2119638275-36-xxxx | hexyl salicylate | < 0,5 % w/w | Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 1 | H315, 317, 410 |
| 138-86-3 | 205-341-0 | 601-029-00-7 | 01-2119529223-47-xxxx | dipentene / limonene | < 0,5 % w/w | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1 | H226, 304, 315, 317, 400, 410 |
| 104-55-2 | 203-213-9 | not assigned | 01-2119935242-45-xxxx | cinnamaldehyde | < 0,1 % w/w | Acute Tox. 4 (derm), Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1A | H312, 315, 317, 319 |
| 57378-68-4 | 260-709-8 | not assigned | no data | 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one | < 0,1 % w/w | Acute Tox. 4 (oral), Skin Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1 | H302, 315, 317, 400, 410 |

M-factor for environment hazardous substance (CAS no 138-86-3, 57378-68-4)
Acute hazard: M = 1
Chronic hazard: M = 1
M-factor for environment hazardous substance (CAS no 54464-57-2, 6259-76-3)
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits
For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**
Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist
**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | 240 | 480 |

| | | | |
|---|---|---|---|
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses

**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |

| | |
|---|---|
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, linalool, linalyl acetate, 3,7-dimethyloctan-3-ol, hexyl salicylate, limonene, cinnamaldehyde, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.

**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)

*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**

Chemical safety assessment was not made for the product

## SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Flam. Liq. 3 Flammable liquids, Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (derm) Acute Toxicity (skin contact), Hazard Category 4

Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1A Skin Sensitizing, Hazard Category 1A
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H312 Harmful in skin contact
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – PUREST NATURE**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Skin Sens. 1 – Skin sensitisation, Hazard Category 1 with assigned phrase H stating the type of hazard:
H317 May cause an allergic skin reaction

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Health hazards: product is classified as hazardous to health, eye irritating, skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Hazardous Ingredient:** 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

**Allergens at content higher then 1/10 value of classification limit:** d-limonene

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 54464-57-2 | 259-174-3 | not assigned | no data | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 1,6 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1 | H315, 317, 410 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 5989-27-5 | 227-813-5 | 601-029-00-7 | 01-2119529223-47-xxxx | (R)-p-mentha-1,8-dien / d-limonene | < 0,5 % w/w | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1 | H226, 304, 315, 317, 400, 410 |
| 1222-05-5 | 214-946-9 | 603-212-00-7 | 01-2119488227-29-xxxx | 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethy-lindeno[5,6-c]pyran / galaxolid | < 0,2 % w/w | Aquatic Acute 1, Aquatic Chronic 1 | H400, 410 |

M-factor for environment hazardous substance (CAS no 54464-57-2)
Chronic hazard: M = 1

M-factor for environment hazardous substance (CAS no 5989-27-5, 1222-05-5)
Acute hazard: M = 1
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.
**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors

and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration

EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product is classified as skin sensitizing (hazard category 1). It contains allergens: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, d-limonene
**Germ cell mutagenicity**: hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**

No data for product

**12.3. Bioaccumulative potential**

No data for product

**12.4. Mobility in soil**

No data for product

**12.5. Results of PBT and vPvB assessment:**

The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**

Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**

Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council

on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

**SECTION 16. OTHER INFORMATION**

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Flam. Liq. 3 Flammable liquids, Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour

H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – ROYALTY**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 34590-94-8 | 252-104-2 | not assigned | 01-2119450011-60-xxxx | (2-methoxymethyl-ethoxy)propanol* | < 8 % w/w | - | - |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 54464-57-2 | 259-174-3 | not assigned | no data | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 0,5 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1 | H315, 317, 410 |
| 144020-22-4 | 482-330-9 | not assigned | 01-2119445289-30-xxxx | acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene | < 0,5 % w/w | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 | H317, 400, 410 |
| 57378-68-4 | 260-709-8 | not assigned | no data | 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one | < 0,1 % w/w | Acute Tox. 4 (oral), Skin Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1 | H302, 315, 317, 400, 410 |

M-factor for environment hazardous substance (CAS no 144020-22-4, 57378-68-4)
Acute hazard: M = 1
Chronic hazard: M = 1

M-factor for environment hazardous substance (CAS no 54464-57-2)
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist
**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems

consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.
**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent

material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | 240 | 480 |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.
**Allowable concentration of hazardous ingredient in biological material:**

Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks

EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives

67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

**SECTION 16. OTHER INFORMATION**

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1A Skin Sensitizing, Hazard Category 1A
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1

Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – SECRET ELIXIR**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: linalool, α-hexylcinnamaldehyde, linalyl acetate, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: linalool, α-hexylcinnamaldehyde, linalyl acetate, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 34590-94-8 | 252-104-2 | not assigned | 01-2119450011-60-xxxx | (2-methoxymethyl-ethoxy)propanol* | < 8 % w/w | - | - |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 78-70-6 | 201-134-4 | 603-235-00-2 | 01-2119474016-42-xxxx | linalool | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 101-86-0 | 202-983-3 | not assigned | 01-2119533092-50-xxxx | α-hexylcinnamaldehyde | < 0,5 % w/w | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2 | H317, 400, 411 |
| 115-95-7 | 204-116-4 | not assigned | 01-2119454789-19-xxxx | linalyl acetate | < 0,5 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 54464-57-2 | 259-174-3 | not assigned | no data | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 0,5 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1 | H315, 317, 410 |

M-factor for environment hazardous substance (CAS no 101-86-0)
Acute hazard: M = 1

M-factor for environment hazardous substance (CAS no 54464-57-2)
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.
**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors

and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | 240 | 480 |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration

EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity

**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: linalool, α-hexylcinnamaldehyde, linalyl acetate, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)

*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**

Chemical safety assessment was not made for the product

## SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1

Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic, Hazard Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – SO BEAUTIFUL**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, methyl cedryl ether, 4-tert-butylcyclohexyl acetate, linalyl acetate, cis-4-(isopropyl)cyclohexanemethanol. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, methyl cedryl ether, 4-tert-butylcyclohexyl acetate, linalyl acetate, cis-4-(isopropyl)cyclohexanemethanol. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 60-12-8 | 200-456-2 | not assigned | 01-2119963921-31-xxxx | 2-phenylethanol | ≤ 1 % w/w | Acute Tox. 4 (oral), Eye Irrit. 2 | H302, 319 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 54464-57-2 | 259-174-3 | not assigned | no data | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 0,6 % w/w | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1 | H315, 317, 410 |
| 19870-74-7 | 243-384-7 | not assigned | 01-2120228335-61-xxxx | methyl cedryl ether | < 0,5 % w/w | Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1 | H317, 400, 410 |
| 32210-23-4 | 250-954-9 | not assigned | 01-2119976286-24-xxxx | 4-tert-butylcyclohexyl acetate | < 0,2 % w/w | Skin Sens. 1B | H317 |
| 115-95-7 | 204-116-4 | not assigned | 01-2119454789-19-xxxx | linalyl acetate | < 0,2 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 13828-37-0 | 237-539-8 | not assigned | no data | cis-4-(isopropyl)cyclohexanemethanol | < 0,2 % w/w | Skin Sens. 1B | H317 |

M-factor for environment hazardous substance (CAS no 19870-74-7)
Acute hazard: M = 1
Chronic hazard: M = 1

M-factor for environment hazardous substance (CAS no 54464-57-2)
Chronic hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**4.2. Most important symptoms and effects, both acute and delayed**
**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

**4.3. Indication of any immediate medical attention and special treatment needed**
**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**
Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

**5.2. Special hazards arising from the mixture**
The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

**5.3. Advice for fire-fighters**
Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

**6.2. Environmental precautions**
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

**6.3. Methods and material for containment and cleaning up**
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

**6.4. Reference to other sections**
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

**7.2. Conditions for safe storage, including any incompatibilities**
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

**7.3. Specific end use(s)**
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**
**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement

methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

**8.2. Exposure controls**
**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking

EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |

**Oxidising properties:** doesn't concern

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity
**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, methyl cedryl ether, 4-tert-butylcyclohexyl acetate, linalyl acetate, cis-4-(isopropyl)cyclohexanemethanol at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.


**Overland transport ADR**
Classification code: F1
Warning label: 3
Code of movement restriction through underpass: D/E

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)
*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**
Chemical safety assessment was not made for the product

## SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1

Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**
Trade name: **REED DIFUSER – WELCOME HOME**

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**
**1.2.1. Relevant identified uses**
Fragrance composition
**1.2.2. Uses advised against**
No data

**1.3. Details of the supplier of the safety data sheet:**
Tasotti
Address: ul. Sudecka 4, 62-800 Kalisz
Tel.: +48 62 7536354
Fax: +48 62 7536355
e-mail: info@tasotti.com.pl
Person responsible for MSDS: Sebastian Cichy, e-mail: info@tasotti.eu

**1.4. Emergency telephone number:**
+48 602 590 310 – producer's emergency telephone

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Flam. Liq. 2 – Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard:
H225 Highly flammable liquid and vapour

Eye Irrit. 2 – Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:
H319 Causes serious eye irritation

Aquatic Chronic 3 – Hazardous to the aquatic environment, CHRONIC, Hazard Category 3 with assigned phrase H stating the type of hazard
H412 Harmful to aquatic life with long lasting effects

Additional hazard:
EUH208 Contains: d-limonene, 3,7-dimethyloctan-3-ol, hexyl salicylate, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, allyl 3-cyclohexylpropionate. May produce an allergic reaction.

Health hazards: product is classified as hazardous to health, eye irritating, potentially skin sensitizing, inhalation of high concentrations of vapours may cause drowsiness or dizziness
Environmental Hazards: product is classified as hazardous to environment, harmful to aquatic life with long lasting effects
Physical/chemical hazards: product is classified as hazardous – highly flammable liquid, vapours form flammable/explosives mixtures with air

**2.2. Label elements**

**Pictograms:**

GHS 02

GHS 07

**Signal Word: Danger**

**Hazard statements:**
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**
**General:**
P102 Keep out of reach of children
**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264 Wash hands and face thoroughly after handling
**Response:**
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
**Storage:**
-
**Disposal:**
-

**Additional labelling:**
EUH208 Contains: d-limonene, 3,7-dimethyloctan-3-ol, hexyl salicylate, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, allyl 3-cyclohexylpropionate. May produce an allergic reaction.

**2.3. Other hazards:**
The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The mixture doesn't contain SVHC substances above 0,1 % w/w.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**
Not applicable

**3.2. Mixtures**
The product is a mixture. Chemical composition: ethanol, fragrance, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substance contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

| No CAS | No EC | Index number | REACH number | Chemical name | Quantity | Risk category | H phrases |
|---|---|---|---|---|---|---|---|
| 64-17-5 | 200-578-6 | 603-002-00-5 | 01-2119457610-43-xxxx | ethanol* | 50 – 60 % w/w | Flam. Liq. 2, Eye Irrit. 2 | H225, 319 |
| 56539-66-3 | 260-252-4 | not assigned | 01-2119976333-33-xxxx | 3-methoxy-3-methylbutan-1-ol | < 30 % w/w | Eye Irrit. 2 | H319 |
| 67-63-0 | 200-661-7 | 603-117-00-0 | 01-2119457558-25-xxxx | propan-2-ol* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319, 336 |
| 78-93-3 | 201-159-0 | 606-002-00-3 | 01-2119457290-43-xxxx | butan-2-on* | < 3 % w/w | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225, 319 336, EUH066 |
| 3734-33-6 | 223-095-2 | not assigned | 01-2120102843-65-xxxx | denatonium benzoate | < 1 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (inh), Eye Dam. 1 | H302, 318, 332 |
| 5989-27-5 | 227-813-5 | 601-029-00-7 | 01-2119529223-47-xxxx | (R)-p-mentha-1,8-diene / d-limonene | < 1 % w/w | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1 | H226, 304, 315, 317, 400, 410 |
| 78-69-3 | 201-133-9 | not assigned | 01-2119454788-21-xxxx | 3,7-dimethyloctan-3-ol | < 1 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B | H315, 317, 319 |
| 6259-76-3 | 228-408-6 | not assigned | 01-2119638275-36-xxxx | hexyl salicylate | < 0,6 % w/w | Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 1 | H315, 317, 410 |
| 68039-49-6 | 268-264-1 | not assigned | no data | 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | < 0,2 % w/w | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3 | H315, 317, 319, 412 |
| 142-19-8 | 205-527-1 | not assigned | 01-2119488961-23-xxxx | allyl heptanoate | < 0,2 % w/w | Acute Tox. 3 (oral), Acute Tox.3 (derm), Acute Tox. 3 (inh), Aquatic Acute 1, Aquatic Chronic 3 | H301, 311, 331, 400, 412 |
| 2705-87-5 | 220-292-5 | not assigned | 01-2119976355-27-xxxx | allyl 3-cyclohexylpropionate | < 0,2 % w/w | Acute Tox. 4 (oral), Acute Tox. 4 (derm), Acute Tox. 4 (inh), Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1 | H302, 312, 317, 332, 400, 410 |

M-factor for environment hazardous substance (CAS no 5989-27-5, 2705-87-5)
Acute hazard: M = 1
Chronic hazard: M = 1

M-factor for environment hazardous substance (CAS no 6259-76-3)
Chronic hazard: M = 1

M-factor for environment hazardous substance (CAS no 142-19-8)
Acute hazard: M = 1

* - substance for which there are Community workplace exposure limits

For the wording of the listed H phrases and hazard category refer to section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General recommendations**

The first step is to remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. Never give anything by mouth to an unconscious person.
In the event of health problems, immediately contact doctor. Show MSDS of product.

**Protection of first aid responders**

Do not take any action that would create a risk to the rescuer unless suitable training.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or rash consult a doctor.

**Contamination of the eye:** flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation or rash consult an ophthalmologist

**Inhalation:** move to fresh air. Provide oxygen or artificial respiration if needed. In case of breathing problems consult a physician.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

### 4.2. Most important symptoms and effects, both acute and delayed

**Acute symptoms** – contact with eyes may cause irritation (redness, tearing, pain). Inhalation of high concentrations of product vapors may cause drowsiness and narcotic effects
**Delayed symptoms** – prolonged or repeated skin contact with product may cause allergic skin reaction for very sensible persons
**Effects of exposure** – no data

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to Physician:** No specific antidote, treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing agents: $CO_2$, powders and foam alcohol resistant, water spray, sand
Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

### 5.2. Special hazards arising from the mixture

The combustion of the product may produce carbon oxides, other harmful gases and fumes. Avoid inhalation of combustion products, may pose a threat to health.
Vapour may cause flash fire. Vapour may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Run-off to sewer may create fire or explosion hazard. Heated containers may explode.

### 5.3. Advice for fire-fighters

Apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.
**Additional notes:** packaging containing product which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area or cooled by water spray.
Fire residues and contaminated waters dispose in according to applicable regulations.
Do not introduce contaminated waters into drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid direct contact with releasing product. Provide adequate ventilation.
Inform about the accident, call the appropriate emergency services (eg Fire Brigade, Police) if necessary. Remove from the hazardous area all persons not taking part in the emergency removal.

**For emergency responders**
Wear suitable personal preventive equipment.

### 6.2. Environmental precautions
Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers.

### 6.3. Methods and material for containment and cleaning up
Stop the leak if it's possible and safe. Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water, observing environmental regulations.

### 6.4. Reference to other sections
Personal protective equipment – section 8
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling
Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8.
Read the label/instructions carefully before use.
Avoid contact with skin and eyes, avoid vapour/mist/aerosol inhalation. Ensure adequate ventilation /exhaust in the workplace, work in well ventilated areas. Unused containers with product keep closed. Provide easy access to running water, emergency and first aid equipment.

**Special measures for protection against fire and explosion:**
Prevent formation of flammable /explosive concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

**Industrial hygiene**
- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- immediately remove spilled product
- use general caution while working with chemical substances

### 7.2. Conditions for safe storage, including any incompatibilities
Keep only in the closed original container properly labelled in accordance with local/federal regulations.
Protect from direct sunshine, heat. Recommended storage temperature: < 30°C.
Keep the product away from children, food, beverage and animal feed.

### 7.3. Specific end use(s)
See section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Occupational Exposure Limit Value (Poland)**:

| Hazardous Ingredients | No CAS | LTEL, mg/m$^3$ | STEL, mg/m$^3$ |
|---|---|---|---|
| ethanol | 64-17-5 | 1900 | - |
| propan-2-ol* | 67-63-0 | 900 | 1200 |
| butan-2-on* | 78-93-3 | 450 | 900 |

*** -** *absorption of substances through the skin may be as important as when inhaled*

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

**Allowable concentration of hazardous ingredient in biological material:**
Not determined for product

**DNEL, PNEC value:**
Not determined for product

**DNELs for workers (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 950 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 343 mg/kg b.w./day |

**DNELs for the general population (regarding ethanol):**

| Exposure pattern | Route | Value |
|---|---|---|
| Long-term, systemic effect | Inhalation | 114 mg/m$^3$ |
| Long-term, systemic effect | Dermal | 206 mg/kg b.w./day |
| Long-term, systemic effect | Oral | 87 mg/kg b.w./day |

**PNECs (regarding ethanol):**
PNEC aqua freshwater: 0,96 mg/dm$^3$
PNEC aqua marine water: 0,79 mg/dm$^3$
PNEC STP: 580 mg/dm$^3$
PNEC sediment freshwater: 3,6 mg/kg sediment d.w.
PNEC sediment marine water: 2,9 mg/kg sediment d.w.
PNEC soil: 0,63 mg/kg soil d.w.

### 8.2. Exposure controls

**Appropriate engineering controls:**
Use engineering controls to reduce air contamination to permissible exposure level.
Explosion-proof general and local exhaust ventilation.

**Personal protection:**
**8.2.1. Professional users (production, transport, storage):**
**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A
**b) Hand protection** – required protective gloves in case of prolonged or frequently repeated exposure to the product. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the

product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape).
**c) Eye protection** – required protective glasses
**d) Skin protection** – recommended protective clothing
**e) Thermal hazards** – not applicable

**EN standards for personal protective equipment**
EN 140:1998/AC:1999 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking
EN 143:2000 + A1:2006 Respiratory protective devices - Particle filters - Requirements, testing, marking
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
EN 420:2003+A1:2009 Protective gloves - General requirements and test methods
EN ISO 374-1:2016/A1:2018 Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-2:2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Determination of material resistance to permeation by chemicals - Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN 166:2001 Personal eye-protection - Specifications
EN 172:1994 + A2:2001 Personal eye protection - Sunglare filters for industrial use
EN ISO 4007:2018 Personal protective equipment - Eye and face protection - Vocabulary
EN ISO 13688:2013 Protective clothing - General requirements
EN 14605:2005+A1:2009 Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])
EN ISO 20345:2011 Personal protective equipment - Safety footwear

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)
Applied personal protective equipment must meet the requirements acc. to Regulation (EC) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**8.2.2. Consumer user (use of handling packaging):**
There aren't required special protection, it's recommended to wash hands after contact with product before eating or smoking

**Environmental exposure controls:**
Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | liquid |
| **Odour:** | characteristic |
| **Odour threshold:** | no data |
| **pH:** | no data |

| | |
|---|---|
| **Melting point/freezing point:** | no data |
| **Initial boiling point and boiling range:** | 78°C |
| **Flash point:** | < 23°C |
| **Evaporation rate:** | no data |
| **Flammability:** | highly flammable vapour and liquid |
| **Upper/lower flammability or explosive limits:** | no data |
| **Vapour pressure:** | no data |
| **Vapour density:** | no data |
| **Density:** | no data |
| **Solubility in water:** | very good |
| **Solubility in other solvents:** | good in alcohols |
| **Partition coefficient: n-octanol/water:** | no data |
| **Auto-ignition temperature:** | doesn't concern |
| **Decomposition temperature:** | no data |
| **Viscosity:** | no data |
| **Explosive properties:** | doesn't concern |
| **Oxidising properties:** | doesn't concern |

**9.2. Other information** no data

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**
Under the properly conditions of storage and handling – no reactivity
**10.2. Chemical stability**
Stable under normal conditions (see Section 7 - storage conditions)

**10.3. Possibility of hazardous reactions**
No hazardous reactions. When stored and handled according to prescribed.

**10.4 Conditions to avoid**
Direct sunlight, heat, sources of ignition

**10.5. Incompatible materials**
Strong oxidizers

**10.6 Hazardous decomposition products**
Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**
**Acute toxicity:**
Acute Oral Toxicity: No data available for product
Acute Dermal Toxicity: No data available for product
Acute Inhalation Toxicity: No data available for product
Classification of acute toxicity of product was made by calculation method acc. to Annex I point 3.1.3.6
**ATE value (estimated) after swallowing** > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after skin contact** > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008
**ATE value (estimated) after inhalation** > 20 mg/dm$^3$/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008
**Skin corrosion/irritation:** data not significant for classification
**Serious eye damage/irritation:** product is classified as irritant (hazard category 2)
**Respiratory or skin sensitisation:** product isn't classified as skin sensitizing. It contains allergens: d-limonene,

3,7-dimethyloctan-3-ol, hexyl salicylate, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, allyl 3-cyclohexylpropionate at content higher then 1/10 of classification concentration limits
**Germ cell mutagenicity:** hazardous ingredients of the product aren't mentioned on the list of mutagenic substances
**Carcinogenicity:** hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.
**Reproductive toxicity:** hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances
**STOT-single exposure:** data not significant for classification, inhalation of high concentrations of vapours may cause drowsiness and dizziness
**STOT-repeated exposure:** data not significant for classification
**Aspiration hazard:** data not significant for classification

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**
No data for product

**12.2. Persistence and degradability**
No data for product

**12.3. Bioaccumulative potential**
No data for product

**12.4. Mobility in soil**
No data for product

**12.5. Results of PBT and vPvB assessment:**
The product and its components do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

**12.6. Other adverse effects**
Product is classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. In trade form product poses high risk to the environment.
Take all care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**
Dispose of waste in accordance with all Federal, State and Local regulations.
**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number:** 1266
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS with flammable solvents
**14.3. Transport hazard class:** 3
**14.4. Packing group:** II
**14.5. Environmental hazards:** no
**14.6. Special precautions for user:** see section 7.1.

**Overland transport ADR**

| | |
|---|---|
| Classification code: | F1 |
| Warning label: | 3 |
| Code of movement restriction through underpass: | D/E |

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** no data

## SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2015/1221 of 24 July 2015 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2016/1179 of 19 July 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) 2017/776 of 4 May 2017 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- European agreement concerning international road transport of dangerous products (ADR)

*Federal, State and Local regulations.*

**15.2. Chemical safety assessment**

Chemical safety assessment was not made for the product

## SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
Flam. Liq. 3 Flammable liquids, Hazard Category 3
Acute Tox. 3 (oral) Acute Toxicity (swallowing) Hazard Category 3
Acute Tox. 4 (oral) Acute Toxicity (swallowing), Hazard Category 4
Acute Tox. 3 (derm) Acute Toxicity (skin contact) Hazard Category 3
Acute Tox. 4 (derm) Acute Toxicity (skin contact) Hazard Category 4
Acute Tox. 3 (inh) Acute Toxicity (inhalation) Hazard Category 3
Acute Tox. 4 (inh) Acute Toxicity (inhalation), Hazard Category 4
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1 Skin Sensitizing, Hazard Category 1
Skin Sens. 1B Skin Sensitizing, Hazard Category 1B
STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
Aquatic Acute 1 Hazardous to the aquatic environment – Acute, Hazard Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic, Hazard Category 1
Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic, Hazard Category 3

H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H311 Toxic in contact with skin
H312 Harmful in contact with skin
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Explanation of abbreviations and acronyms used in the MSDS:
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
CAS – Chemical Abstracts Service
WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LTEL – long term exposure limits maximum of a substance harmful to health in the workplace
LEL – lower explosive limit
UEL – upper explosive limit
LD50 – lethal dose 50%
LC50 – lethal concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.
ECHA European Chemicals Agency, http://echa.europa.eu/

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.