

|                                                                                  |                                    |                                                                                |
|----------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------|
|  | <b>CARTAI BASSANESI S.p.A.</b>     | Revision nr. 2                                                                 |
|                                                                                  | <b>Grapefruit and vanilla_c_04</b> | Dated 04/12/2023<br>First compilation<br>Printed on 04/12/2023<br>Page n. 1/17 |

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: Grapefruit and vanilla\_c\_04  
Product name: Grapefruit and vanilla\_c\_04

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: synthetic fragrance

#### 1.3. Details of the supplier of the safety data sheet

Name: CARTAI BASSANESI S.p.A.  
Full address: Via Santa Caterina, 258  
District and Country: 31011 ASOLO (TV)  
Italia  
tel. 0423 541600

e-mail address of the competent person responsible for the Safety Data Sheet: cartai@cartaibassanesi.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
NHS in England: 111  
NHS in Scotland: 111  
NHS Direct in Wales: 111 or 0845 4647  
In an emergency, if the patient has collapsed or is not breathing properly, call 999

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

|                                                                    |      |                                                  |
|--------------------------------------------------------------------|------|--------------------------------------------------|
| Eye irritation, category 2                                         | H319 | Causes serious eye irritation.                   |
| Skin irritation, category 2                                        | H315 | Causes skin irritation.                          |
| Skin sensitization, category 1                                     | H317 | May cause an allergic skin reaction.             |
| Hazardous to the aquatic environment, acute toxicity, category 1   | H400 | Very toxic to aquatic life.                      |
| Hazardous to the aquatic environment, chronic toxicity, category 2 | H411 | Toxic to aquatic life with long lasting effects. |

|                                                                                  |                                    |                                                                                |
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## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:                      Danger

Hazard statements:

|             |                                                  |
|-------------|--------------------------------------------------|
| <b>H319</b> | Causes serious eye irritation.                   |
| <b>H315</b> | Causes skin irritation.                          |
| <b>H317</b> | May cause an allergic skin reaction.             |
| <b>H400</b> | Very toxic to aquatic life.                      |
| <b>H411</b> | Toxic to aquatic life with long lasting effects. |

Precautionary statements:

|                  |                                                                                 |
|------------------|---------------------------------------------------------------------------------|
| <b>P331</b>      | Do NOT induce vomiting.                                                         |
| <b>P280</b>      | Wear protective gloves/ protective clothing / eye protection / face protection. |
| <b>P301+P310</b> | IF SWALLOWED: Immediately call a POISON CENTER / doctor / . . .                 |
| <b>P273</b>      | Avoid release to the environment.                                               |
| <b>P391</b>      | Collect spillage.                                                               |
| <b>P261</b>      | Avoid breathing dust / fume / gas / mist / vapours / spray.                     |

**Contains:**

ALPHA-METHYL-1,3-BENZODIOXOLE-5-PROPIONALDEHYDE  
(R)-P-MENTHA-1,8-DIENE  
2-Benzylideneoctanal  
1,5-Dimethyl-1-vinylhex-4-en-1-yl acetate  
Benzyl salicylate  
3-(4-Isopropylphenyl)-2-methylpropanal  
2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene  
6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane  
CITRAL  
3,7-dimethyloctan-3-ol

|                                                                                  |                                    |                                                                                |
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(E)-1-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-2-buten-1-one

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

| Identification                                    | x = Conc. %      | Classification (EC) 1272/2008 (CLP)                                                                                               |
|---------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>3,7-dimethyloctan-3-ol</b>                     |                  |                                                                                                                                   |
| INDEX -                                           | $10 \leq x < 20$ | Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317                                                                         |
| EC 201-133-9                                      |                  |                                                                                                                                   |
| CAS 78-69-3                                       |                  |                                                                                                                                   |
| REACH Reg. 01-2119454788-21                       |                  |                                                                                                                                   |
| <b>2-Benzylideneoctanal</b>                       |                  |                                                                                                                                   |
| INDEX -                                           | $10 \leq x < 20$ | Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411                                                               |
| EC 202-983-3                                      |                  |                                                                                                                                   |
| CAS 101-86-0                                      |                  |                                                                                                                                   |
| <b>(R)-P-MENTHA-1,8-DIENE</b>                     |                  |                                                                                                                                   |
| INDEX 601-096-00-2                                | $5 \leq x < 10$  | Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 |
| EC 227-813-5                                      |                  |                                                                                                                                   |
| CAS 5989-27-5                                     |                  |                                                                                                                                   |
| <b>Benzyl salicylate</b>                          |                  |                                                                                                                                   |
| INDEX -                                           | $5 \leq x < 10$  | Skin Sens. 1 H317                                                                                                                 |
| EC 204-262-9                                      |                  |                                                                                                                                   |
| CAS 118-58-1                                      |                  |                                                                                                                                   |
| <b>1,5-Dimethyl-1-vinylhex-4-en-1-yl acetate</b>  |                  |                                                                                                                                   |
| INDEX -                                           | $5 \leq x < 10$  | Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317                                                                          |
| EC 204-116-4                                      |                  |                                                                                                                                   |
| CAS 115-95-7                                      |                  |                                                                                                                                   |
| <b>.alpha.,.alpha.-Dimethylphenethyl butyrate</b> |                  |                                                                                                                                   |
| INDEX -                                           | $5 \leq x < 10$  | Aquatic Chronic 2 H411                                                                                                            |
| EC 233-221-8                                      |                  |                                                                                                                                   |
| CAS 10094-34-5                                    |                  |                                                                                                                                   |
| <b>Undecan-4-olide</b>                            |                  |                                                                                                                                   |
| INDEX -                                           | $1 \leq x < 5$   | Aquatic Chronic 3 H412                                                                                                            |
| EC 203-225-4                                      |                  |                                                                                                                                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |  |                                                                                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Grapefruit and vanilla_c_04 |  | Dated 04/12/2023<br>First compilation<br>Printed on 04/12/2023<br>Page n. 4/17 |
| CAS 104-67-6<br>REACH Reg. 01-2119959333-34<br><b>3-(4-Isopropylphenyl)-2-methylpropanal</b><br>INDEX - 1 ≤ x < 5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317<br>EC 203-161-7<br>CAS 103-95-7<br><b>4-(2,6,6-Trimethylcyclohex-1-en-1-yl)but-3-en-2-one</b><br>INDEX 1 ≤ x < 5 Aquatic Chronic 2 H411<br>EC -<br>CAS 14901-07-6<br><b>ALPHA-METHYL-1,3-BENZODIOXOLE-5-PROPIONALDEHYDE</b><br>INDEX - 1 ≤ x < 5 Repr. 2 H361, Skin Sens. 1B H317, Aquatic Chronic 2 H411<br>EC 214-881-6<br>CAS 1205-17-0<br><b>Benzyl benzoate</b><br>INDEX - 1 ≤ x < 5 Acute Tox. 4 H302, Aquatic Chronic 2 H411<br>EC 204-402-9 STA Oral: 500 mg/kg<br>CAS 120-51-4<br><b>ethyl maltol</b><br>INDEX - 1 ≤ x < 5 Acute Tox. 4 H302<br>EC 225-582-5 LD50 Oral: 1150 mg/kg<br>CAS 4940-11-8<br><b>6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane</b><br>INDEX - 0.1 ≤ x < 1 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1<br>EC 204-872-5<br>CAS 127-91-3<br>REACH Reg. 01-2119519230-54<br><b>2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene</b><br>INDEX - 0.1 ≤ x < 1 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1<br>EC 201-291-9<br>CAS 80-56-8<br><b>CITRAL</b><br>INDEX - 0.1 ≤ x < 1 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317<br>EC 226-394-6<br>CAS 5392-40-5<br><b>(E)-1-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-2-buten-1-one</b><br>INDEX - 0.1 ≤ x < 1 Skin Sens. 1 H317<br>EC 245-842-1<br>CAS 23726-91-2<br><b>2,6-bis(1,1-dimethylethyl)-4-methylphenol</b> |                             |  |                                                                                |

|                                                                                  |                                    |                                                                                |
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INDEX -  $0.1 \leq x < 1$  Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1  
EC 204-881-4  
CAS 128-37-0  
REACH Reg. 01-2119565113-46

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.  
**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.  
**INHALATION:** Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.  
**INGESTION:** Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

**SUITABLE EXTINGUISHING EQUIPMENT**  
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.  
**UNSUITABLE EXTINGUISHING EQUIPMENT**  
None in particular.

### 5.2. Special hazards arising from the substance or mixture

**HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**  
Do not breathe combustion products.

### 5.3. Advice for firefighters

**GENERAL INFORMATION**  
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.  
**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**  
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

|                                                                                  |                                    |                                                                                |
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#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory references:

|     |             |                                                                                                                          |
|-----|-------------|--------------------------------------------------------------------------------------------------------------------------|
| DEU | Deutschland | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.                     |
|     | TLV-ACGIH   | MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56 |
|     |             | ACGIH 2022                                                                                                               |

#### (R)-P-MENTHA-1,8-DIENE

Threshold Limit Value

|                                                                                  |                                    |                                                                                |
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| Type | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|------|---------|--------|-----|------------|-----|------------------------|
|      |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| AGW  | DEU     | 28     | 5   | 112        | 20  | SKIN                   |
| MAK  | DEU     | 28     | 5   | 112        | 20  | SKIN                   |

| <b>CITRAL</b>                |         |        |     |            |     |                        |
|------------------------------|---------|--------|-----|------------|-----|------------------------|
| <b>Threshold Limit Value</b> |         |        |     |            |     |                        |
| Type                         | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|                              |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV-ACGIH                    |         |        | 5   |            |     | SKIN                   |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

|                                                                                  |                                    |                                                                                |
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## SECTION 9. Physical and chemical properties

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

| Properties                             | Value               | Information                                                         |
|----------------------------------------|---------------------|---------------------------------------------------------------------|
| Appearance                             | liquid              |                                                                     |
| Colour                                 | Colorless to yellow |                                                                     |
| Odour                                  | characteristic      |                                                                     |
| Melting point / freezing point         | not determined      |                                                                     |
| Initial boiling point                  | not determined      |                                                                     |
| Flammability                           | not applicable      |                                                                     |
| Lower explosive limit                  | not available       | Remark: Vapors can form explosive mixtures with air.                |
| Upper explosive limit                  | not available       | Remark: Vapors can form explosive mixtures with air.                |
| Flash point                            | 81 °C               |                                                                     |
| Auto-ignition temperature              | not available       | Remark: The substance or mixture is not classified as self-heating. |
| Decomposition temperature              | not available       |                                                                     |
| pH                                     | not determined      |                                                                     |
| Kinematic viscosity                    | not available       |                                                                     |
| Solubility                             | not available       |                                                                     |
| Partition coefficient: n-octanol/water | not determined      |                                                                     |
| Vapour pressure                        | <1 kPa              | Remark: Calculated Temperature: 50 °C                               |
| Density and/or relative density        | not determined      |                                                                     |
| Relative vapour density                | not determined      |                                                                     |
| Particle characteristics               | not applicable      |                                                                     |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Information not available

#### 9.2.2. Other safety characteristics

Information not available

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

|                                                                                  |                                    |                                                                                                                  |
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### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

#### Interactive effects

|                                                                                  |                                    |                                                                                 |
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Information not available

#### ACUTE TOXICITY

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
| ATE (Oral) of the mixture:       | >2000 mg/kg                               |
| ATE (Dermal) of the mixture:     | Not classified (no significant component) |

Benzyl benzoate

|             |                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|
| STA (Oral): | 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture) |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|

ethyl maltol

|              |            |
|--------------|------------|
| LD50 (Oral): | 1150 mg/kg |
|--------------|------------|

2,6-bis(1,1-dimethylethyl)-4-methylphenol

|                |            |
|----------------|------------|
| LD50 (Dermal): | 5000 mg/kg |
|----------------|------------|

3,7-dimethyloctan-3-ol

|                |              |
|----------------|--------------|
| LD50 (Dermal): | > 5000 mg/kg |
| LD50 (Oral):   | > 5000 mg/kg |

CITRAL

Acute toxicity estimate: > 5000 mg/kg, Calculation method

|                |                  |
|----------------|------------------|
| LD50 (Dermal): | > 2000 mg/kg Rat |
| LD50 (Oral):   | 6800 mg/kg Rat   |

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

|                                                                                  |                                    |                                                                                 |
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#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Information not available

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Information not available

#### **11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## **SECTION 12. Ecological information**

This product is dangerous for the environment and highly toxic for aquatic organisms.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

#### **12.1. Toxicity**

|                                                                                  |                                    |                                                                                 |
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(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish

35 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

69.6 mg/l/48h Daphnia pulex

CITRAL

LC50 - for Fish

6.78 mg/l/96h Leuciscus idus

EC50 - for Crustacea

6.8 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

103.84 mg/l/72h Scenedesmus subspicatus

## 12.2. Persistence and degradability

(R)-P-MENTHA-1,8-DIENE

Solubility in water

0,1 - 100 mg/l

Rapidly degradable

CITRAL

Rapidly degradable

## 12.3. Bioaccumulative potential

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water

4.38

BCF

1022

CITRAL

Partition coefficient: n-octanol/water

2.76

BCF

89.72

## 12.4. Mobility in soil

Information not available

## 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

## 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

## 12.7. Other adverse effects

Information not available

# SECTION 13. Disposal considerations

## 13.1. Waste treatment methods

|                                                                                  |                                    |                                                                                 |
|----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------|
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Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

#### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information

### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to IATA dangerous goods regulations.

### 14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



### 14.4. Packing group

ADR / RID, IMDG, IATA: III

### 14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous



### 14.6. Special precautions for user

|                                                                                  |                                    |                                                                                 |
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|            |                                       |                            |                              |
|------------|---------------------------------------|----------------------------|------------------------------|
| ADR / RID: | HIN - Kemler: 90                      | Limited Quantities: 5<br>L | Tunnel restriction code: (-) |
|            | Special provision: 274, 335, 375, 601 |                            |                              |
| IMDG:      | EMS: F-A, S-F                         | Limited Quantities: 5<br>L |                              |
| IATA:      | Cargo:                                | Maximum quantity: 450<br>L | Packaging instructions: 964  |
|            | Passengers:                           | Maximum quantity: 450<br>L | Packaging instructions: 964  |
|            | Special provision:                    | A97, A158, A197, A215      |                              |

#### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product  
Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

|                                                                                  |                                    |                                                                                 |
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Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                       |
| <b>Repr. 2</b>           | Reproductive toxicity, category 2                                  |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4                                         |
| <b>Asp. Tox. 1</b>       | Aspiration hazard, category 1                                      |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2                                         |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2                                        |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <b>Skin Sens. 1B</b>     | Skin sensitization, category 1B                                    |
| <b>Aquatic Acute 1</b>   | Hazardous to the aquatic environment, acute toxicity, category 1   |
| <b>Aquatic Chronic 1</b> | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H361</b>              | Suspected of damaging fertility or the unborn child.               |
| <b>H302</b>              | Harmful if swallowed.                                              |
| <b>H304</b>              | May be fatal if swallowed and enters airways.                      |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.                                            |
| <b>H317</b>              | May cause an allergic skin reaction.                               |
| <b>H400</b>              | Very toxic to aquatic life.                                        |
| <b>H410</b>              | Very toxic to aquatic life with long lasting effects.              |
| <b>H411</b>              | Toxic to aquatic life with long lasting effects.                   |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |

LEGEND:

|                                                                                  |                                    |                                                                                 |
|----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------|
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- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
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  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
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  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

|                                                                                  |                                    |                                                                                 |
|----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------|
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**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.