according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

### 1.1. Product identifier

Product form : Mixture

Product name : R-258 STAINLESS STEEL CLEANER

UFI : XEHG-H4V7-F00A-UUHA

Product code : 002777050381

Type of product : Detergent

Vaporizer : Aerosol

Product group : End product

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

#### Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Use of the substance/mixture : Cleaning agent

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

TYGRIS LTD UNIT 31

KYLE ROAD INDUSTRIAL ESTATE

IRVINE SCOTLAND T 01294 311066

Jon.Butcher@tygrisindustrial.com

## 1.4. Emergency telephone number

| Country/Area | Organisation/Company                                     | Address                                  | Emergency number   | Comment |
|--------------|--|--|--|---------|
| Ireland      | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1 H222;H229 Specific target organ toxicity – Single exposure, Category 3, H336

Narcosis

Full text of H- and EUH-statements: see section 16

## Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS02

GHS07



## STAINLESS STEEL CLEANER R258

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Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

: Danger

: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

: H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H336 - May cause drowsiness or dizziness.

: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use. P261 - Avoid breathing vapours, spray.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves.

P264 - Wash hands thoroughly after handling.

P312 - Call a POISON CENTER, doctor if you feel unwell.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122

°F.

P501 - Dispose of contents/ container in accordance with local regulations.

EUH208 - Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

EUH066 - Repeated exposure may cause skin dryness or cracking.

Child-resistant fastening : Not applicable Tactile warning : Not applicable

## 2.3. Other hazards

**EUH-statements** 

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

| Name  | Product identifier   | %       | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP] |
|---|--|---------|---|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics substance with national workplace exposure limit(s) (PL, CH); substance with a Community workplace exposure limit (Note P) | CAS-No.: 64742-48-9<br>EC-No.: 919-857-5<br>EC Index-No.: 649-327-00-6<br>REACH-no: 01-2119463258-<br>33 | 25 – 50 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>EUH066  |
| White mineral oil (petroleum) substance with national workplace exposure limit(s) (DE, HU, SI, CH)  | CAS-No.: 8042-47-5<br>EC-No.: 232-455-8<br>REACH-no: 01-2119487078-<br>27                                | 25 – 50 | Asp. Tox. 1, H304   |
| Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) substance with national workplace exposure limit(s) (BE, CZ, GB, GR, HR, TR) (Note K)  | CAS-No.: 68476-85-7<br>EC-No.: 270-704-2<br>EC Index-No.: 649-202-00-6                                   | 20 – 25 | Flam. Gas 1A, H220<br>Press. Gas                                      |

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Name   | Product identifier  | %                    | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|---|----------------------|--|
| (R)-p-mentha-1,8-diene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)  | CAS-No.: 5989-27-5<br>EC-No.: 227-813-5<br>EC Index-No.: 601-096-00-2                                   | 0.1 – 0.2            | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410       |
| Citral substance with national workplace exposure limit(s) (BE, ES, IE, PL)  | CAS-No.: 5392-40-5<br>EC-No.: 226-394-6<br>EC Index-No.: 605-019-00-3<br>REACH-no: 01-2119462829-<br>23 | 0.005 – 0.05         | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317   |
| Pin-2(3)-ene<br>substance with national workplace exposure limit(s)<br>(BE, EE, ES, LT, PT, SE, NO, CH)  | CAS-No.: 80-56-8<br>EC-No.: 201-291-9   | 0.005 – 0.05         | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) |
| p-cymene<br>substance with national workplace exposure limit(s)<br>(DK, EE, LT, SE, IS)  | CAS-No.: 99-87-6<br>EC-No.: 202-796-7<br>EC Index-No.: 601-094-00-1                                     | 0.005 – 0.05         | Flam. Liq. 3, H226<br>Acute Tox. 3 (Inhalation), H331 (ATE=0.5<br>mg/l/4h)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                           |
| 2,6-di-tert-butyl-p-cresol<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, DE, DK, ES, FI, FR, GB, GR, HR, IE,<br>PT, SI, IS, MK, CH) | CAS-No.: 128-37-0<br>EC-No.: 204-881-4  | 0.0000001 –<br>0.005 | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)   |

Note K: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than

0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least

the precautionary statements (P102-)P210-P403 shall apply.

Note P: Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than

0.1% w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note

applies only to certain complex oil-derived substances in Part 3.

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

### **Detergent Regulation (648/2004)**

| Ingredient data sheet  |            |          |
|--|------------|----------|
| Component  | CAS-No.    | %        |
| Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C13 and boiling in the range of approximately 65 oC to 230 oC (149 oF to 446 oF).] | 64742-48-9 | ≥10%     |
| White mineral oil (petroleum)  | 8042-47-5  | ≥10%     |
| Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately– 40°C to 80°C (– 40°F to 176°F).]   | 68476-85-7 | ≥10%     |
| LIMONENE   | 5989-27-5  | 0.1 - 1% |



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| CITRAL                           | 5392-40-5 | <0.1% |
|----------------------------------|-----------|-------|
| TERPINOLENE                      | 586-62-9  | <0.1% |
| p-menth-1-en-8-ol                | 98-55-5   | <0.1% |
| PINENE                           | 80-56-8   | <0.1% |
| GAMMA-TERPINENE                  | 99-85-4   | <0.1% |
| P-CYMENE                         | 99-87-6   | <0.1% |
| DECANAL                          | 112-31-2  | <0.1% |
| ETHYL BETA-NAPHTHYL ETHER        | 93-18-5   | <0.1% |
| MYRCENE                          | 123-35-3  | <0.1% |
| METHYLUNDECANAL                  | 110-41-8  | <0.1% |
| 2,6-DI-TERT-BUTYL-4-METHYLPHENOL | 128-37-0  | <0.1% |

| Labelling of contents  |      |  |
|------------------------|------|--|
| Component              | %    |  |
| aliphatic hydrocarbons | ≥30% |  |
| perfumes               |      |  |
| CITRAL                 |      |  |
| LIMONENE               |      |  |

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

First-aid measures for first aider : First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : None under normal conditions.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Extremely flammable aerosol.





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Explosion hazard : Pressurised container: May burst if heated.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing

dust/fume/gas/mist/vapours/spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to

prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use. Precautions for safe handling : Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open

: Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-

ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked

up. Store in a well-ventilated place. Keep container tightly closed.

Packaging materials : Store always product in container of same material as original container.

## 7.3. Specific end use(s)

No additional information available



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

National occupational exposure and biological limit values

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9) |  |  |  |
|---|--|--|--|
| EU - Indicative Occupational Exposure Limit (IOEL)                                |  |  |  |
| Local name  | White spirit Type 3                      |  |  |
| IOEL TWA  | 116 mg/m³                                |  |  |
|   | 20 ppm                                   |  |  |
| IOEL STEL   | 290 mg/m³                                |  |  |
|   | 50 ppm                                   |  |  |
| Remark Skin. (Year of adoption 2007)  |  |  |  |
| Regulatory reference SCOEL Recommendations  |  |  |  |
| Citral (5392-40-5)  |  |  |  |
| Ireland - Occupational Exposure Limits  |  |  |  |
| Local name  | Citral                                   |  |  |
| OEL TWA   | 5 ppm IFV (Inhlable Fraction and Vapour) |  |  |
| Regulatory reference  | Chemical Agents Code of Practice 2021    |  |  |
| 2,6-di-tert-butyl-p-cresol (128-37-0)   |  |  |  |
| Ireland - Occupational Exposure Limits  |  |  |  |
| ocal name 2,6-Ditertiary-butyl-para-cresol [Butylated hydroxytoluene (BHT)]       |  |  |  |
| DEL TWA 2 mg/m³   |  |  |  |
| Regulatory reference  | Chemical Agents Code of Practice 2021    |  |  |

## 8.2. Exposure controls

### Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

### Personal protective equipment:

Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):







### Eye and face protection

### Eye protection:

Safety glasses

| Eye protection |                      |                 |          |
|----------------|----------------------|-----------------|----------|
| Туре           | Field of application | Characteristics | Standard |
| Safety glasses |                      |                 | EN 166   |



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### **Skin protection**

#### Skin and body protection:

Wear suitable protective clothing

| Skin and body protection |             |
|--------------------------|-------------|
| Туре                     | Standard    |
| protective clothing      | EN ISO 6530 |

### Hand protection:

Protective gloves

| Hand protection                       |          |            |                |             |          |
|---------------------------------------|----------|------------|----------------|-------------|----------|
| Туре                                  | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves,<br>Reusable gloves |          |            |                |             | EN 374-2 |

#### **Respiratory protection**

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### **Environmental exposure controls**

### Environmental exposure controls:

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless. **Appearance** : Aerosol. Odour : lemon-like. Odour threshold : Not available Melting point : Not applicable Freezing point : Not available **Boiling point** : -40 - -2 °C (LPG)

Flammability : Extremely flammable aerosol.

Explosive properties : Pressurised container: May burst if heated.

Lower explosion limit : 1.4 vol % (LPG)
Upper explosion limit : 10.9 vol % (LPG)
Flash point : < -40 °C
Auto-ignition temperature : 365 °C (LPG)
Decomposition temperature : Not available
pH : Not available
Viscosity, kinematic : < 20.5 mm²/s

Viscosity, kinematic : < 20.5 mm²/s
Solubility : Not available
Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure : 590 – 1760 kPa (LPG)

Vapour pressure at 50°C : Not available
Density : Not available
Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

### 9.2. Other information

## Information with regard to physical hazard classes

% of flammable ingredients : 70.0284 %



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### Other safety characteristics

Volatility : Volatile

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Acute toxicity (illinatation)   | Not classified   |  |  |  |
|---|--|--|--|--|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9) |  |  |  |  |
| LD50 oral rat   | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |  |  |  |
| LD50 dermal rabbit  | > 3160 mg/kg Source: IUCLID  |  |  |  |
| (R)-p-mentha-1,8-diene (5989-27-5)  |  |  |  |  |
| LD50 oral rat   | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)        |  |  |  |
| Pin-2(3)-ene (80-56-8)  |  |  |  |  |
| LD50 dermal rat   | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |  |  |  |
| p-cymene (99-87-6)  |  |  |  |  |
| LD50 dermal rabbit  | > 5000 mg/kg bodyweight Animal: rabbit, Guideline: other:  |  |  |  |
| 2,6-di-tert-butyl-p-cresol (128-37-0)   |  |  |  |  |
| LD50 dermal rat   | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)   |  |  |  |
| Skin corrosion/irritation :   | Not classified   |  |  |  |
| Serious eye damage/irritation :   | Not classified   |  |  |  |
| Respiratory or skin sensitisation :   | Not classified   |  |  |  |

Germ cell mutagenicity

Carcinogenicity

Not classifiedNot classified

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| (R)-p-mentha-1,8-diene (5989-27-5)  |   |  |  |  |
|---|---|--|--|--|
| IARC group  | 3 - Not classifiable  |  |  |  |
| 2,6-di-tert-butyl-p-cresol (128-37-0)   |   |  |  |  |
| NOAEL (chronic, oral, animal/male, 2 years)                                       | 25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:   |  |  |  |
| ,   | Not classified May cause drowsiness or dizziness.   |  |  |  |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes                                       | , cyclics, < 2% aromatics (64742-48-9)  |  |  |  |
| STOT-single exposure  | May cause drowsiness or dizziness.  |  |  |  |
| STOT-repeated exposure :  | Not classified  |  |  |  |
| Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7)           |   |  |  |  |
| LOAEC (inhalation, rat, gas, 90 days)   | 12000 ppm Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: |  |  |  |
| Aspiration hazard :   | Not classified  |  |  |  |
| R-258 STAINLESS STEEL CLEANER   |   |  |  |  |
| Vaporizer   | Aerosol   |  |  |  |
| Viscosity, kinematic  | < 20.5 mm²/s  |  |  |  |
| Not able to form a pool   | Yes   |  |  |  |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9) |   |  |  |  |
| Viscosity, kinematic  | < 1 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'   |  |  |  |

## 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term : No

: Not classified

(chronic)

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9) |   |  |
|---|---|--|
| LC50 - Fish [1] > 1000 mg/l   |   |  |
| LC50 - Other aquatic organisms [1] 2.6 mg/l Source: IUCLID                        |   |  |
| EC50 - Other aquatic organisms [1] > 1000 mg/l waterflea                          |   |  |
| EC50 - Other aquatic organisms [2]  | > 1000 mg/l   |  |
| Citral (5392-40-5)  |   |  |
| LC50 - Fish [1] 6.78 mg/l Test organisms (species): Leuciscus idus                |   |  |
| EC50 - Crustacea [1] 6.8 mg/l Test organisms (species): Daphnia magna             |   |  |
| EC50 72h - Algae [1]  | 103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |  |

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| (R)-p-mentha-1,8-diene (5989-27-5)                                      |  |  |
|---|--|--|
| LC50 - Fish [1]   | 720 μg/l Test organisms (species): Pimephales promelas   |  |
| LC50 - Fish [2]   | 702 μg/l Test organisms (species): Pimephales promelas   |  |
| EC50 - Crustacea [1]  | 0.307 mg/l Test organisms (species): Daphnia magna   |  |
| EC50 - Crustacea [2]  | 0.51 mg/l Test organisms (species): Daphnia magna  |  |
| EC50 72h - Algae [1]  | 0.32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |  |
| EC50 72h - Algae [2]  | 0.214 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |  |
| Pin-2(3)-ene (80-56-8)  |  |  |
| LC50 - Fish [1]   | 0.303 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)  |  |
| EC50 - Crustacea [1]  | 0.475 mg/l Test organisms (species): Daphnia magna   |  |
| p-cymene (99-87-6)  |  |  |
| LC50 - Fish [1]   | 48 mg/l Test organisms (species): Cyprinodon variegatus  |  |
| EC50 - Crustacea [1]  | 3.7 mg/l Test organisms (species): Daphnia magna   |  |
| EC50 72h - Algae [1]  | 4.03 mg/l Test organisms (species): Scenedesmus capricornutum  |  |
| EC50 72h - Algae [2]  | 2.01 mg/l Test organisms (species): Scenedesmus capricornutum  |  |
| 2,6-di-tert-butyl-p-cresol (128-37-0)                                   |  |  |
| LC50 - Fish [1]   | > 0.57 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)   |  |
| EC50 - Crustacea [1]  | 0.48 mg/l Test organisms (species): Daphnia magna  |  |
| EC50 72h - Algae [1]  | > 0.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                      |  |
| LOEC (chronic)  | 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |  |
| NOEC (chronic)  | 0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |  |
| Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7) |  |  |
| LC50 - Fish [1]   | 0.362 mg/l   |  |
| EC50 - Crustacea [1]  | 0.018 mg/l   |  |
| ErC50 algae   | 7.6 mg/l Source: ECOTOX  |  |

## 12.2. Persistence and degradability

| R-258 STAINLESS STEEL CLEANER   |                        |  |
|---|------------------------|--|
| Persistence and degradability   | Not rapidly degradable |  |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9) |                        |  |
| Persistence and degradability Rapidly degradable                                  |                        |  |
| Biodegradation  | 80 %                   |  |
| White mineral oil (petroleum) (8042-47-5)   |                        |  |
| Persistence and degradability  Not rapidly degradable                             |                        |  |
| Citral (5392-40-5)  |                        |  |
| Persistence and degradability   | Not rapidly degradable |  |





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| (R)-p-mentha-1,8-diene (5989-27-5)                                      |                        |  |
|---|------------------------|--|
| Persistence and degradability   | Not rapidly degradable |  |
| Pin-2(3)-ene (80-56-8)  |                        |  |
| Persistence and degradability Not rapidly degradable                    |                        |  |
| p-cymene (99-87-6)  |                        |  |
| Persistence and degradability   | Not rapidly degradable |  |
| 2,6-di-tert-butyl-p-cresol (128-37-0)                                   |                        |  |
| Persistence and degradability   | Not rapidly degradable |  |
| Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7) |                        |  |
| Persistence and degradability   | Rapidly degradable     |  |

## 12.3. Bioaccumulative potential

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9) |  |  |
|---|--|--|
| Partition coefficient n-octanol/water (Log Pow) 2.1 – 6 Source: IUCLID            |  |  |
| Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7)           |  |  |
| Partition coefficient n-octanol/water (Log Pow) ≤ 2.8 Source: IUCLID              |  |  |

## 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

: Disposal must be done according to official regulations.

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

: Disposal must be done according to official regulations.

: Disposal must be done according to official regulations.

: Do not re-use empty containers.

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HP Code

- : HP3 "Flammable:"
  - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
  - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
  - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
  - flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
  - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
  - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                               | IMDG   | IATA                                | ADN                               | RID                               |
|-----------------------------------|--|-------------------------------------|-----------------------------------|-----------------------------------|
| 14.1. UN number or ID number      |  |                                     |                                   |                                   |
| UN 1950                           | UN 1950  | UN 1950                             | UN 1950                           | UN 1950                           |
| 14.2. UN proper shippin           | g name   |                                     |                                   |                                   |
| AEROSOLS                          | AEROSOLS   | Aerosols, flammable                 | AEROSOLS                          | AEROSOLS                          |
| Transport document descr          | iption   |                                     |                                   |                                   |
| UN 1950 AEROSOLS, 2.1, (D)        | UN 1950 AEROSOLS, 2.1  | UN 1950 Aerosols,<br>flammable, 2.1 | UN 1950 AEROSOLS, 2.1             | UN 1950 AEROSOLS, 2.1             |
| 14.3. Transport hazard            | class(es)  |                                     |                                   |                                   |
| 2.1                               | 2.1  | 2.1                                 | 2.1                               | 2.1                               |
| 2                                 | ***************************************  | 2                                   | 2                                 | 2                                 |
| 14.4. Packing group               |  |                                     |                                   |                                   |
| Not applicable                    | Not applicable   | Not applicable                      | Not applicable                    | Not applicable                    |
| 14.5. Environmental haz           | ards   |                                     |                                   |                                   |
| Dangerous for the environment: No | Dangerous for the<br>environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-D<br>EmS-No. (Spillage): S-U | Dangerous for the environment: No   | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information      | n available  |                                     |                                   |                                   |

## 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) :

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E0

Packing instructions (ADR) : P207, LP200

Special packing provisions (ADR) : PP87, RR6, L2





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Mixed packing provisions (ADR) : MP9
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V14
Special provisions for carriage - Loading, unloading : CV9, CV12

and handling (ADR)

Special provisions for carriage - Operation (ADR) : S2 Tunnel restriction code (ADR) : D

#### Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP200
Special packing provisions (IMDG) : PP87, L2
Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

#### Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

#### **Inland waterway transport**

Classification code (ADN) : 5F

Special provisions (ADN) : 190, 327, 344, 625

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01, VE04

#### Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L Excepted quantities (RID) : E0

Packing instructions (RID) : P207, LP200 Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID) : MP9

Transport category (RID) : 2

Special provisions for carriage – Packages (RID) : W14

Special provisions for carriage - Loading, unloading : CW9, CW12

and handling (RID)

Colis express (express parcels) (RID) : CE2 Hazard identification number (RID) : 23

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

Not applicable



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

## **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

## Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### **Detergent Regulation (648/2004)**

## Fragrance allergens > 0.01%:

LIMONENE CITRAL

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| ACGIH                       | American Conference of Government Industrial Hygienists   |  |
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |  |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |  |
| ATE                         | Acute Toxicity Estimate   |  |
| BCF                         | Bioconcentration factor   |  |
| BLV                         | Biological limit value  |  |
| BOD                         | Biochemical oxygen demand (BOD)   |  |
| CAS-No.                     | Chemical Abstract Service number  |  |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |  |
| COD                         | Chemical oxygen demand (COD)  |  |
| CSA                         | Chemical safety assessment  |  |

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |  |  |
|-----------------------------|--|--|--|
| DMEL                        | Derived Minimal Effect level   |  |  |
| DNEL                        | Derived-No Effect Level  |  |  |
| EC-No.                      | European Community number  |  |  |
| EC50                        | Median effective concentration   |  |  |
| ED                          | Endocrine disruptor  |  |  |
| EN                          | European Standard  |  |  |
| EWC                         | European waste catalogue   |  |  |
| IARC                        | International Agency for Research on Cancer                                  |  |  |
| IATA                        | International Air Transport Association                                      |  |  |
| IMDG                        | International Maritime Dangerous Goods                                       |  |  |
| LC50                        | Median lethal concentration  |  |  |
| LD50                        | Median lethal dose   |  |  |
| LOAEL                       | Lowest Observed Adverse Effect Level   |  |  |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                              |  |  |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |  |  |
| MAK                         | maximum workplace concentration  |  |  |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |  |  |
| NOAEL                       | No-Observed Adverse Effect Level   |  |  |
| NOEC                        | No-Observed Effect Concentration   |  |  |
| N.O.S.                      | Not Otherwise Specified  |  |  |
| OECD                        | Organisation for Economic Co-operation and Development                       |  |  |
| OEL                         | Occupational Exposure Limit  |  |  |
| OSHA                        | Occupational Safety Health Administration                                    |  |  |
| PBT                         | Persistent Bioaccumulative Toxic   |  |  |
| PNEC                        | Predicted No-Effect Concentration  |  |  |
| PPE                         | Personal protection equipment  |  |  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |  |  |
| SDS                         | Safety Data Sheet  |  |  |
| STP                         | Sewage treatment plant   |  |  |
| TF                          | Technical function   |  |  |
| ThOD                        | Theoretical oxygen demand (ThOD)   |  |  |
| TLM                         | Median Tolerance Limit   |  |  |
| TWA                         | Time Weighted Average  |  |  |
| VOC                         | Volatile Organic Compounds   |  |  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |  |  |
| UFI                         | Unique Formula Identifier  |  |  |

| Full text | of H- and | EUH-stateme | nts: |
|-----------|-----------|-------------|------|

Acute Tox. 3 (Inhalation) Acute toxicity (inhal.), Category 3



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EU | Full text of H- and EUH-statements:                                    |  |  |
|------------------------|--|--|--|
| 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      |  |  |
| Asp. Tox. 1            | Aspiration hazard, Category 1  |  |  |
| Eye Irrit. 2           | Serious eye damage/eye irritation, Category 2                          |  |  |
| Flam. Gas 1A           | Flammable gases, Category 1A   |  |  |
| Flam. Liq. 3           | Flammable liquids, Category 3  |  |  |
| Press. Gas             | Gases under pressure   |  |  |
| Skin Irrit. 2          | Skin corrosion/irritation, Category 2                                  |  |  |
| Skin Sens. 1           | Skin sensitisation, Category 1   |  |  |
| Skin Sens. 1B          | Skin sensitisation, category 1B  |  |  |
| STOT SE 3              | Specific target organ toxicity – Single exposure, Category 3, Narcosis |  |  |
| H220                   | Extremely flammable gas.   |  |  |
| H222                   | Extremely flammable aerosol.   |  |  |
| H226                   | Flammable liquid and vapour.   |  |  |
| H229                   | Pressurised container: May burst if heated.                            |  |  |
| H304                   | May be fatal if swallowed and enters airways.                          |  |  |
| H315                   | Causes skin irritation.  |  |  |
| H317                   | May cause an allergic skin reaction.                                   |  |  |
| H319                   | Causes serious eye irritation.   |  |  |
| H331                   | Toxic 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.                  |  |  |
| EUH208                 | Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.     |  |  |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |      |                       |
|---|------|-----------------------|
| Aerosol 1 H222;H229 On basis of test data   |      | On basis of test data |
| STOT SE 3   | H336 | Calculation method    |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

