

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.08.2021

Version number 3.0

Revision: 24.08.2021

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

### 1.1 Product identifier

Trade name: **MOTO SHINE**

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

No further relevant information available.

### Application of the substance / the mixture

Only for proper handling.

Cleaning agent/ Cleaner

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

#### Manufacturer/Supplier:

MOTOREX AG

Bern–Zürich–Strasse 31, Postfach

CH–4901 Langenthal

Tel. +41 (0)62 919 75 75

www.motorex.com

Further information obtainable from: [msds@motorex.com](mailto:msds@motorex.com)

### 1.4 Emergency telephone number:

In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS02 GHS07

#### Signal word Warning

#### Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

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

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

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- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

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

Contains biocidal products: propan-2-ol

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

|                                                                                                |                                                                                                                                   |             |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------|
| CAS: 1569-01-3<br>EINECS: 216-372-4<br>Reg.nr.: 01-2119474443-37                               | 1-propoxypropan-2-ol<br>Flam. Liq. 3, H226; Eye Irrit. 2, H319                                                                    | 10%         |
| CAS: 67-63-0<br>EINECS: 200-661-7<br>Index number: 603-117-00-0<br>Reg.nr.: 01-2119457558-25   | propan-2-ol<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336                                                            | ≥5-<10%     |
| CAS: 519142-86-0                                                                               | Silicone Quaternium-17<br>Aquatic Chronic 2, H411                                                                                 | ≥2.5-≤7.5%  |
| CAS: 556-67-2<br>EINECS: 209-136-7<br>Index number: 014-018-00-1<br>Reg.nr.: 01-2119529238-36  | octamethylcyclotetrasiloxane<br>Flam. Liq. 3, H226; Repr. 2, H361f; Aquatic Chronic 4, H413                                       | ≥0.1-≤1%    |
| CAS: 540-97-6<br>EINECS: 208-762-8<br>Reg.nr.: 01-2119517435-42                                | Dodecamethylcyclohexasiloxane                                                                                                     | ≥0-≤1%      |
| CAS: 541-02-6<br>EINECS: 208-764-9<br>Reg.nr.: 01-2119511367-43                                | 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane                                                                                | ≥0-≤1%      |
| CAS: 5989-27-5<br>EINECS: 227-813-5<br>Index number: 601-029-00-7<br>Reg.nr.: 01-2119529223-47 | (R)-p-mentha-1,8-diene<br>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 | ≥0.1-<0.25% |

**SVHC**

|          |                                                    |
|----------|----------------------------------------------------|
| 556-67-2 | octamethylcyclotetrasiloxane                       |
| 540-97-6 | Dodecamethylcyclohexasiloxane                      |
| 541-02-6 | 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane |

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

|                                                 |     |
|-------------------------------------------------|-----|
| non-ionic surfactants                           | <5% |
| perfumes, preservation agents (sodium benzoate) |     |

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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Remove residues with soap and water.

Remove contaminated clothing immediately.

Immediately rinse with water.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Consult a physician if irritation develops.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Do not induce vomiting. Do not take in resorption stimulating agents.

Consult a physician who will decide on need and method of emptying the stomach.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.

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- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 3
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see section 7.

#### · **Ingredients with limit values that require monitoring at the workplace:**

##### **67-63-0 propan-2-ol**

|     |                                                    |
|-----|----------------------------------------------------|
| WEL | Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm |
|     | Long-term value: 999 mg/m <sup>3</sup> , 400 ppm   |

#### · **DNELs**

##### **1569-01-3 1-propoxypropan-2-ol**

|            |                                                    |                                 |
|------------|----------------------------------------------------|---------------------------------|
| Oral       | DNEL/general population/Systemic effects/Long-term | 11 mg/kg/24h (consumer)         |
| Dermal     | DNEL / Workers / Systemic effects / Long-term      | 82.5 mg/kg/24h (worker)         |
|            | DNEL/general population/Systemic effects/Long-term | 36 mg/kg/24h (consumer)         |
| Inhalative | DNEL / Workers / Systemic effects / Long-term      | 263 mg/m <sup>3</sup> (worker)  |
|            | DNEL/general population/Systemic effects/Long-term | 38 mg/m <sup>3</sup> (consumer) |

##### **67-63-0 propan-2-ol**

|            |                                                    |                                 |
|------------|----------------------------------------------------|---------------------------------|
| Oral       | DNEL/general population/Systemic effects/Long-term | 26 mg/kg/24h (consumer)         |
| Dermal     | DNEL / Workers / Systemic effects / Long-term      | 888 mg/kg/24h (worker)          |
|            | DNEL/general population/Systemic effects/Long-term | 319 mg/kg/24h (consumer)        |
| Inhalative | DNEL / Workers / Systemic effects / Long-term      | 500 mg/m <sup>3</sup> (worker)  |
|            | DNEL/general population/Systemic effects/Long-term | 89 mg/m <sup>3</sup> (consumer) |

##### **5989-27-5 (R)-p-mentha-1,8-diene**

|            |                                                    |                                  |
|------------|----------------------------------------------------|----------------------------------|
| Oral       | DNEL/general population/Systemic effects/Long-term | 4.8 mg/kg/24h (consumer)         |
| Dermal     | DNEL / Workers / Systemic effects / Long-term      | 9.5 mg/kg/24h (worker)           |
| Inhalative | DNEL / Workers / Systemic effects / Long-term      | 66.7 mg/m <sup>3</sup> (worker)  |
|            | DNEL/general population/Systemic effects/Long-term | 4.8 mg/m <sup>3</sup> (consumer) |

#### · **PNECs**

##### **1569-01-3 1-propoxypropan-2-ol**

|                                                              |                                      |
|--------------------------------------------------------------|--------------------------------------|
| PNEC / Aquatic organisms / Freshwater                        | 0.1 mg/l (aquatic organisms)         |
| PNEC / Aquatic organisms / Marine water                      | 0.01 mg/l (aquatic organisms)        |
| PNEC / Aquatic organisms / intermittent releases(freshwater) | 1 mg/l (aquatic organisms)           |
| PNEC/Aquatic organisms/Sewage treatment plant/STP            | 4 mg/l (aquatic organisms)           |
| PNEC / Aquatic organisms / Sediment (freshwater)             | 0.386 mg/kg (aquatic organisms)      |
| PNEC / Aquatic organisms / Sediment (marine water)           | 0.0386 mg/kg (aquatic organisms)     |
| PNEC / Terrestrial organism / Soil                           | 0.0185 mg/kg (terrestrial organisms) |

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**67-63-0 propan-2-ol**

|      |                                                         |                                                  |
|------|---------------------------------------------------------|--------------------------------------------------|
| Oral | PNEC / Predators / Secondary poisoning                  | 160 mg/kg food (secondary poisoning (predators)) |
|      | PNEC / Aquatic organisms / Freshwater                   | 140.9 mg/l (aquatic organisms)                   |
|      | PNEC / Aquatic organisms / Marine water                 | 140.9 mg/l (aquatic organisms)                   |
|      | PNEC / Aquatic org / intermittent releases (freshwater) | 140.9 mg/l (aquatic organisms)                   |
|      | PNEC / Aquatic organisms / Sewage treatment plant / STP | 2,251 mg/l (aquatic organisms)                   |
|      | PNEC / Aquatic organisms / Sediment (freshwater)        | 552 mg/kg (aquatic organisms)                    |
|      | PNEC / Aquatic organisms / Sediment (marine water)      | 552 mg/kg (aquatic organisms)                    |
|      | PNEC / Terrestrial organism / Soil                      | 28 mg/kg (terrestrial organisms)                 |

**5989-27-5 (R)-p-mentha-1,8-diene**

|      |                                                         |                                                  |
|------|---------------------------------------------------------|--------------------------------------------------|
| Oral | PNEC / Predators / Secondary poisoning                  | 133 mg/kg food (secondary poisoning (predators)) |
|      | PNEC / Aquatic organisms / Freshwater                   | 0.014 mg/l (aquatic organisms)                   |
|      | PNEC / Aquatic organisms / Marine water                 | 0.0014 mg/l (aquatic organisms)                  |
|      | PNEC / Aquatic organisms / Sewage treatment plant / STP | 1.8 mg/l (aquatic organisms)                     |
|      | PNEC / Aquatic organisms / Sediment (freshwater)        | 3.85 mg/kg (aquatic organisms)                   |
|      | PNEC / Aquatic organisms / Sediment (marine water)      | 0.385 mg/kg (aquatic organisms)                  |
|      | PNEC / Terrestrial organism / Soil                      | 0.763 mg/kg (terrestrial organisms)              |

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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**· Eye protection:**

safety goggles

**· Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

|                           |                 |
|---------------------------|-----------------|
| <b>Form:</b>              | Fluid           |
| <b>Colour:</b>            | Colourless      |
| <b>· Odour:</b>           | Characteristic  |
| <b>· Odour threshold:</b> | Not determined. |

**· pH-value:** Not determined.**· Change in condition**

|                                                 |               |
|-------------------------------------------------|---------------|
| <b>Melting point/freezing point:</b>            | Undetermined. |
| <b>Initial boiling point and boiling range:</b> | Undetermined. |

**· Flash point:** 39 °C**· Flammability (solid, gas):** Not applicable.**· Ignition temperature:** 425 °C (DIN 51794)**· Decomposition temperature:** Not determined.**· Auto-ignition temperature:** Product is not selfigniting.**· Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**· Explosion limits:**

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
| <b>Upper:</b> | Not determined. |

**· Vapour pressure at 20 °C:** 23 hPa**· Density at 20 °C:** 0.985 g/cm<sup>3</sup> (ASTM D 4052)**· Relative density** Not determined.**· Vapour density** Not determined.**· Evaporation rate** Not determined.**· Solubility in / Miscibility with water:**

Fully miscible.

**· Partition coefficient: n-octanol/water:** Not determined.**· Viscosity:**

|                   |                 |
|-------------------|-----------------|
| <b>Dynamic:</b>   | Not determined. |
| <b>Kinematic:</b> | Not determined. |

**· 9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

**· 10.1 Reactivity** No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · **LD/LC50 values relevant for classification:**

##### **1569-01-3 1-propoxypropan-2-ol**

|            |          |                            |
|------------|----------|----------------------------|
| Oral       | LD50     | 2,490-4,330 mg/kg (rat)    |
|            | LD50     | 2.83-4.92 ml/kg (rat)      |
| Dermal     | LD50     | 3,775-4,330 ml/kg (rabbit) |
|            | LD50     | 4.29-4.92 mg/kg (rabbit)   |
| Inhalative | LC0 / 4h | 1,725 ppm (rat)            |
|            | NOAEC    | 300 ppm (rat)              |

##### **67-63-0 propan-2-ol**

|            |           |                       |
|------------|-----------|-----------------------|
| Oral       | LD50      | 5,840 mg/kg (rat)     |
| Dermal     | LD50      | 16.4 ml/kg (rabbit)   |
|            | LD50      | 12,800 mg/kg (rabbit) |
| Inhalative | LC50 / 6h | 10,000 ppm (rat)      |
|            | NOAEC     | 5,000 ppm (rat)       |
|            | NOEC      | 500-5,000 ppm (rat)   |

##### **5989-27-5 (R)-p-mentha-1,8-diene**

|      |       |                             |
|------|-------|-----------------------------|
| Oral | LD50  | 2,000 mg/kg (rat)           |
|      | NOAEL | 100 mg/kg/24h (dog)         |
|      |       | 500-1,650 mg/kg/24h (mouse) |
|      |       | 600-3,300 mg/kg/24h (rat)   |
|      | LOAEL | 3,300 mg/kg/24h (mouse)     |
|      |       | 1,200-1,650 mg/kg/24h (rat) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

##### 1569-01-3 1-propoxypropan-2-ol

|      |                                        |
|------|----------------------------------------|
| LC50 | 100 mg/l/96h (fish)                    |
| LC50 | 100 mg/l/48h (aquatic invertebrates)   |
|      | 100 mg/l/48h (fish)                    |
| LC50 | 100 mg/l/24h (aquatic invertebrates)   |
| EC50 | 1,466 mg/l/96h (algae / cyanobacteria) |
| EC50 | 3,440 mg/l/72h (algae / cyanobacteria) |
| EC50 | 5,583 mg/l/48h (algae / cyanobacteria) |

##### 67-63-0 propan-2-ol

|      |                                         |
|------|-----------------------------------------|
| LC50 | 9.64-10 mg/l/96h (fish)                 |
| LC50 | 10,000 mg/l/24h (aquatic invertebrates) |
| EC50 | 10,000 mg/l/24h (aquatic invertebrates) |

##### 5989-27-5 (R)-p-mentha-1,8-diene

|      |                                              |
|------|----------------------------------------------|
| LC50 | 0.46-0.72 mg/l/96h (fish)                    |
| EC10 | 18 mg/l/3h (microorganisms)                  |
| EC10 | 0.153 mg/l/21d (aquatic invertebrates)       |
| EC10 | 0.14 mg/l/48h (algae / cyanobacteria)        |
| EC50 | 209 mg/l/3h (microorganisms)                 |
| EC50 | 0.688-0.702 mg/l/96h (fish)                  |
| EC10 | 0.149-0.174 mg/l/72h (algae / cyanobacteria) |
| EC50 | 0.214-0.32 mg/l/72h (algae / cyanobacteria)  |
| EC50 | 0.188 mg/l/21d (aquatic invertebrates)       |
| EC50 | 0.307 mg/l/48h (aquatic invertebrates)       |
|      | 0.25 mg/l/48h (algae / cyanobacteria)        |
| NOEC | 0.05-0.08 mg/l/21d (aquatic invertebrates)   |
| NOEC | 0.09 mg/l/48h (algae / cyanobacteria)        |
| NOEC | 0.059-0.37 mg/l/7d (fish)                    |
| NOEC | 0.08 mg/l/28d (fish)                         |

12.2 Persistence and degradability No further relevant information available.

#### 12.3 Bioaccumulative potential

##### 1569-01-3 1-propoxypropan-2-ol

|                       |                                              |
|-----------------------|----------------------------------------------|
| Partition coefficient | 0.621 [---] (log Kow) (Bioaccumulation)      |
| Biodegradability      | 91.5 % (28d) (Biodegradability) (OECD 301 A) |

##### 67-63-0 propan-2-ol

|                       |                                                |
|-----------------------|------------------------------------------------|
| Partition coefficient | 0.05 [---] (log Kow) (Bioaccumulation)         |
| Biodegradability      | >70 % (28d) (Biodegradability) (EU Method C.5) |

##### 5989-27-5 (R)-p-mentha-1,8-diene

|                       |                                            |
|-----------------------|--------------------------------------------|
| Partition coefficient | 4.38 [---] (log Kow) (Bioaccumulation)     |
| Biodegradability      | 80 % (28d) (Biodegradability) (OECD 301 D) |

12.4 Mobility in soil No further relevant information available.

#### Ecotoxicological effects:

Remark: Harmful to fish

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· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR/RID/ADN, IMDG, IATA**

UN1993

· **14.2 UN proper shipping name**

· **ADR/RID/ADN**

1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol, 1-propoxypropan-2-ol)

· **IMDG, IATA**

FLAMMABLE LIQUID, N.O.S. (propan-2-ol, 1-propoxypropan-2-ol)

· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN**



· **Class**

3 (F1) Flammable liquids.

· **Label**

3

· **IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**

· **ADR/RID/ADN, IMDG, IATA**

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|                                                                                  |                                                                                                                  |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| · <b>14.5 Environmental hazards:</b>                                             |                                                                                                                  |
| · <b>Marine pollutant:</b>                                                       | No                                                                                                               |
| · <b>14.6 Special precautions for user</b>                                       | Warning: Flammable liquids.                                                                                      |
| · <b>Hazard identification number (Kemler code):</b>                             | 30                                                                                                               |
| · <b>EMS Number:</b>                                                             | F-E, S-E                                                                                                         |
| · <b>Stowage Category</b>                                                        | A                                                                                                                |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> |                                                                                                                  |
|                                                                                  | Not applicable.                                                                                                  |
| · <b>Transport/Additional information:</b>                                       |                                                                                                                  |
| · <b>ADR/RID/ADN</b>                                                             |                                                                                                                  |
| · <b>Limited quantities (LQ)</b>                                                 | 5L                                                                                                               |
| · <b>Excepted quantities (EQ)</b>                                                | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · <b>Transport category</b>                                                      | 3                                                                                                                |
| · <b>Tunnel restriction code</b>                                                 | D/E                                                                                                              |
| · <b>IMDG</b>                                                                    |                                                                                                                  |
| · <b>Limited quantities (LQ)</b>                                                 | 5L                                                                                                               |
| · <b>Excepted quantities (EQ)</b>                                                | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · <b>UN "Model Regulation":</b>                                                  | UN 1993 FLAMMABLE LIQUID, N.O.S. (PROPAN-2-OL, 1-PROPOXYPROPAN-2-OL), 3, III                                     |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c** FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **Other regulations, limitations and prohibitive regulations**

#### · **Substances of very high concern (SVHC) according to REACH, Article 57**

|          |                                                    |
|----------|----------------------------------------------------|
| 556-67-2 | octamethylcyclotetrasiloxane                       |
| 540-97-6 | Dodecamethylcyclohexasiloxane                      |
| 541-02-6 | 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane |

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

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- **purity requirement**

- **Relevant phrases**

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 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.  
 H336 May cause drowsiness or dizziness.  
 H361f Suspected of damaging fertility.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.  
 H413 May cause long lasting harmful effects to aquatic life.

- **Department issuing SDS: Abteilung Produktsicherheit**

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3  
 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

- **\* Data compared to the previous version altered.**

### Annex: Exposure scenario 1

- **Short title of the exposure scenario** Industrial use of cleaning agents

- **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category** PC35 Washing and cleaning products (including solvent based products)

- **Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

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- **Environmental release category**  
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product**  
Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

### Annex: Exposure scenario 2

- **Short title of the exposure scenario** Professional use of cleaning agents
- **Sector of Use**  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Process category**  
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.  
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions  
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities  
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities  
PROC10 Roller application or brushing  
PROC11 Non industrial spraying  
PROC13 Treatment of articles by dipping and pouring  
PROC15 Use as laboratory reagent
- **Environmental release category**  
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.

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- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

### Annex: Exposure scenario 3

- **Short title of the exposure scenario** Private use of cleaning agents
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Process category**
  - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
  - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
  - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
  - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
  - PROC10 Roller application or brushing
  - PROC11 Non industrial spraying
  - PROC13 Treatment of articles by dipping and pouring
- **Environmental release category**
  - ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.

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- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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