SWAG Autoteile GmbH

# 42117 Wuppertal

Date printed 29.06.2023, Revision 29.06.2023

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

#### 1.1 Product identifier

antifreeze Article number: 99 91 9400, 32 92 2278, 30 91 9402, 32 92 2276, 20 93 3831, 30 97 9400 UFI: TX8A-MJTD-100D-VNC3

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

Anti-freezing agents

#### 1.2.2 Uses advised against

None known.

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

 Company
 SWAG Autoteile GmbH

 Am Kiesberg 4-6
 42117 Wuppertal / GERMANY

 Phone +49 (0)202 26454-0
 Fax +49 (0)202 26454-0

 Fax +49 (0)202 26454-5000
 Homepage www.swag.de

 E-mail info@swag.de
 E-mail info@swag.de

 Address enquiries to
 Info@swag.de

 Safety Data Sheet
 info@swag.de

1.4 Emergency telephone number

| Advisory body | +49 (0)89-19240 (24h) (English) |
|---------------|---------------------------------|
| Company       | +49 (0)202 26454-0              |

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Acute Tox. 4: H302 Harmful if swallowed. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

#### 2.2 Label elements

Hazard pictograms

Signal word Contains: Hazard statements

**Precautionary statements** 

The product is required to be labelled in accordance with regulation CLP.



WARNING

Ethylene glycol



H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure.

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

P102 Keep out of reach of children.

P260 Do not breathe vapours.

P270 Do no eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.

P314 Get medical advice / attention if you feel unwell.

P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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# 2.3 Other hazards

| Human health dangers  | If swallowed or in the event of vomiting, risk of product entering the lungs.<br>Frequent persistent contact with the skin can cause skin irritation. |
|-----------------------|---|
| Environmental hazards | Does not contain any PBT or vPvB substances.<br>Contains no ingredients with endocrine-disrupting properties.   |
| Other hazards         | none  |

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

#### 3.1 Substances

not applicable

### 3.2 Mixtures

#### The product is a mixture.

| Range [%]   | Substance   |
|-------------|---|
| 80 - 90     | Ethylene glycol   |
|             | CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX |
|             | GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373   |
| 1 - < 2.5   | Potassium isononanoate  |
|             | CAS: 84501-71-3, EINECS/ELINCS: 282-991-1   |
|             | GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319   |
| 0.1 - < 0.3 | Methyl-1H-benzotriazole   |
|             | CAS: 29385-43-1, EINECS/ELINCS: 249-596-6, Reg-No.: 01-2119979081-35-XXXX                       |
|             | GHS/CLP: Acute Tox. 4: H302 - Aquatic Chronic 2: H411 - Repr. 2: H361d                          |

#### Comment on component parts

For full text of H-statements and R-phrases: see SECTION 16.

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

# 4.1 Description of first aid measures

| General information | Take off contaminated clothing and wash before reuse.   |
|---------------------|---|
| Inhalation          | Ensure supply of fresh air.<br>In the event of symptoms seek medical treatment.   |
| Skin contact        | In case of contact with skin wash off immediately with soap and water.<br>Consult a doctor if skin irritation persists.   |
| Eye contact         | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists: Get medical advice/attention. |
| Ingestion           | Do not induce vomiting.<br>Consult a doctor immediately.<br>Rinse out mouth and give plenty of water to drink.  |

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

Headache Drowsiness

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

Treat symptomatically. Forward this sheet to your doctor.

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| SEC | TION 5: Fire-fighting measures   |   |  |
|-----|--|---|--|
| 5.1 |  |   |  |
| 5.1 | Extinguishing media<br>Suitable extinguishing media  | Carbon dioxide.<br>Water spray jet.<br>Dry powder.<br>Foam.   |  |
|     | Extinguishing media that must not<br>be used   | Full water jet.   |  |
| 5.2 | Special hazards arising from the   | substance or mixture  |  |
|     |  | Risk of formation of toxic pyrolysis products.  |  |
| 5.3 | Advice for firefighters  |   |  |
|     |  | Use self-contained breathing apparatus.   |  |
|     |  | Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.   |  |
| SEC | TION 6: Accidental release measu   | ires  |  |
| 6.1 | Personal precautions, protective   | equipment and emergency procedures  |  |
|     |  | High risk of slipping due to leakage/spillage of product.<br>Forms slippery surfaces with water.  |  |
| 6.2 | Environmental precautions  |   |  |
|     |  | Prevent spread over a wide area (e.g. by containment or oil barriers).<br>Do not discharge into the drains/surface waters/groundwater.  |  |
| 6.3 | Methods and material for contair   | nment and cleaning up   |  |
|     | Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).<br>Dispose of absorbed material in accordance within the regulations. |   |  |
| 6.4 | Reference to other sections  | See SECTION 8+13  |  |
| 050 | TION 7. Handling and starage   |   |  |
| SEC | TION 7: Handling and storage   |   |  |
| 7.1 | Precautions for safe handling  | Lice only in well ventileted areas  |  |
|     |  | Use only in well-ventilated areas.<br>The product is combustible.   |  |
|     |  | Take off contaminated clothing and wash before reuse.<br>Do not eat, drink or smoke when using this product.<br>Use barrier skin cream.<br>Wash hands before breaks and after work.<br>Contaminated work clothing should not be allowed out of the workplace. |  |
| 7.2 | Conditions for safe storage, inclu   | uding any incompatibilities   |  |
|     |  | Keep only in original container.<br>Prevent penetration into the ground.  |  |
|     |  | Do not store together with oxidizing agents.<br>Do not store together with food and animal food/diet.   |  |
|     |  | Keep container tightly closed.<br>Keep container in a well-ventilated place.<br>Protect from heat/overheating.  |  |
| 7.3 | Specific end use(s)  | See product use, SECTION 1.2  |  |

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# **SECTION 8: Exposure controls / personal protection**

# 8.1 Control parameters

# Ingredients with occupational exposure limits to be monitored (GB)

| Substance   |  |
|---|--|
| Ethylene glycol   |  |
| CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX |  |
| Long-term exposure: 20 ppm, 52 mg/m <sup>3</sup> , Vapour, particulate: 10 mg/m <sup>3</sup>    |  |
| Short-term exposure (15-minute): 40 ppm, 104 mg/m <sup>3</sup>                                  |  |

### Ingredients with occupational

### exposure limits to be monitored (EU)

| Substance / EC LIMIT VALUES   |
|---|
| Ethylene glycol   |
| CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX |
| Eight hours: 20 ppm, 52 mg/m <sup>3</sup> , H   |
| Short-term (15-minute): 40 ppm, 104 mg/m <sup>3</sup>   |

# DNEL

| Substance  |   |
|--|---|
| Ethylene glycol, CAS: 107-21-1   |   |
| Industrial, dermal, Long-term - syster                                       | nic effects, 106 mg/m <sup>3</sup>            |
| Industrial, inhalative, Long-term - loc                                      | al effects, 35 mg/m <sup>3</sup>              |
| general population, dermal, Long-ter   | n - systemic effects, 53 mg/m <sup>3</sup>    |
| general population, inhalative, Long-  | erm - local effects, 7 mg/m <sup>3</sup>      |
| Methyl-1H-benzotriazole, CAS: 2938   | 5-43-1  |
| Industrial, dermal, Long-term - syster                                       | nic effects, 300 μg/kg bw/day                 |
| Industrial, inhalative, Long-term - systemic effects, 21.2 mg/m <sup>3</sup> |   |
| general population, oral, Long-term - systemic effects, 10 µg/kg bw/day      |   |
| general population, dermal, Long-term - systemic effects, 10 µg/kg bw/day    |   |
| general population, inhalative, Long-  | erm - systemic effects, 350 μg/m <sup>3</sup> |

#### PNEC

| Substance   |
|---|
| Ethylene glycol, CAS: 107-21-1                    |
| freshwater, 10 mg/L                               |
| seawater, 1 mg/L                                  |
| sediment (freshwater), 37 mg/kg                   |
| soil, 1.53 mg/kg                                  |
| sewage treatment plants (STP), 199.5 mg/l (AF=10) |
| sediment (seawater), 3.7 mg/kg                    |
| Methyl-1H-benzotriazole, CAS: 29385-43-1          |
| soil, 18.7 µg/kg soil dw                          |
| sediment (seawater), 292 µg/kg sediment dw        |
| sediment (freshwater), 117 µg/kg sediment dw      |
| sewage treatment plants (STP), 39.4 mg/L          |
| seawater, 20 µg/L                                 |
| freshwater, 8 µg/L                                |

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# 8.2 Exposure controls

| Additional advice on system design                             | Ensure adequate ventilation on workstation.<br>Measurement methods for taking workplace measurements must meet the performance<br>requirements of DIN EN 482. For example, recommendations are given in the IFA's list of<br>hazardous substances.   |  |
|--|--|--|
| Eye protection   | Safety glasses. (EN 166:2001)  |  |
| Hand protection  | The details concerned are recommendations. Please contact the glove supplier for further information. > 0.4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).   |  |
| Skin protection  | Light protective clothing.   |  |
| Other  | Personal protective equipment should be selected specifically for the working place,<br>depending on concentration and quantity handled. The resistance of this equipment to<br>chemicals should be ascertained with the respective supplier.<br>Avoid contact with eyes and skin.<br>Do not inhale vapours. |  |
| Respiratory protection   | Respiratory protection mask in the event of high concentrations.<br>Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)  |  |
| Thermal hazards  | No information available.  |  |
| Delimitation and monitoring of the<br>environmental exposition | Comply with applicable environmental regulations limiting discharge to air, water and soil.  |  |

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

# 9.1 Information on basic physical and chemical properties

| Physical state                          | liquid                                 |
|---|--|
| Form                                    | liquid                                 |
| Color                                   | magenta                                |
| Odor                                    | faintly                                |
| Odour threshold                         | No information available.              |
| pH-value                                | 7.8 - 8.5 (50%)                        |
| pH-value [1%]                           | No information available.              |
| Boiling point [°C]                      | No information available.              |
| Flash point [°C]                        | > 110 (DIN 51758)                      |
| Flammability                            | not applicable                         |
| Lower explosion limit                   | No information available.              |
| Upper explosion limit                   | No information available.              |
| Oxidising properties                    | no                                     |
| Vapour pressure/gas pressure [kPa]      | <0.01 (20°C)                           |
| Density [g/cm³]                         | ca. 1.12 (DIN 51757) (20 °C / 68,0 °F) |
| Relative density                        | not determined                         |
| Bulk density [kg/m³]                    | not applicable                         |
| Solubility in water                     | miscible                               |
| Solubility other solvents               | No information available.              |
| Partition coefficient [n-octanol/water] | No information available.              |
| Kinematic viscosity                     | No information available.              |
| Relative vapour density                 | No information available.              |
| Evaporation speed                       | No information available.              |
| Melting point [°C]                      | No information available.              |
| Auto-ignition temperature [°C]          | No information available.              |
| Decomposition temperature [°C]          | No information available.              |
| Particle characteristics                | No information available.              |
|   |  |

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## 9.2 Other information

No information available.

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No dangerous reactions known if used as directed.

#### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

#### 10.4 Conditions to avoid

Strong heating.

#### 10.5 Incompatible materials

See SECTION 10.3. Oxidizing agent Strong acids.

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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## **SECTION 11: Toxicological information**

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

## Acute oral toxicity

| Product                                  |  |
|--|--|
| ATE-mix, oral, 538.4 mg/kg bw            |  |
|  |  |
| Substance                                |  |
| Ethylene glycol, CAS: 107-21-1           |  |
| LD50, oral, Rat, 7712 mg/kg bw           |  |
| ATE, oral, 500 mg/kg (Acute Tox. 4)      |  |
| Methyl-1H-benzotriazole, CAS: 29385-43-1 |  |
| LD50, oral, Rat, 720 mg/kg               |  |
| NOAEL, oral, Rat, 150 mg/kg bw/day       |  |

#### Acute dermal toxicity

#### Product

dermal, Based on the available information, the classification criteria are not fulfilled.

| Substance                                |
|--|
| Ethylene glycol, CAS: 107-21-1           |
| LD50, dermal, mouse, > 3500 mg/kg bw     |
| Methyl-1H-benzotriazole, CAS: 29385-43-1 |
| LD50, dermal, Rabbit, 2000 mg/kg bw      |

#### Acute inhalational toxicity

Product inhalative, Based on the available information, the classification criteria are not fulfilled.

| Substance                                 |
|---|
| Ethylene glycol, CAS: 107-21-1            |
| LC50, inhalative, Rat, > 2.5 mg/L air, 6h |

#### Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

| Substance                                  |
|--|
| Ethylene glycol, CAS: 107-21-1             |
| Eye, Rabbit, In vivo study, non-irritating |

#### Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

| Substance |
|-----------|

| Ethylene glycol, CAS: 107-21-1                |
|---|
| dermal, Rabbit, In vivo study, non-irritating |
|   |

Based on the available information, the classification criteria are not fulfilled.

Respiratory or skin sensitisation

# Substance

| Ethylene | glycol, | CAS: | 107-21-1 |
|----------|---------|------|----------|
|          | 5,,     |      | -        |

dermal, Guinea pig, In vivo study, non-sensitizing

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| single exposure                            |                    |   |
|--|--------------------|---|
| Specific target orgai<br>repeated exposure | ı toxicity —       | Toxicological data of complete product are not available.<br>May cause damage to organs through prolonged or repeated exposure.<br>Calculation method |
| S  | ubstance           |   |
| E  | thylene glycol, CA | S: 107-21-1   |
| Ν  | OAEL, dermal, Do   | og, 2200 mg/kg bw/day, adverse effect observed  |
| N  | OEL, oral, Rat, 15 | 50 mg/kg bw/day, OECD 408, adverse effect observed  |

| Substance                                      |
|--|
| Ethylene glycol, CAS: 107-21-1                 |
| in vitro, OECD 471, no adverse effect observed |

### **Reproduction toxicity**

Based on the available information, the classification criteria are not fulfilled.

#### - Fertility

| Subs  | stance  |
|-------|---|
| Ethyl | lene glycol, CAS: 107-21-1                                      |
| NOA   | AEL, oral, Rat, > 1000 mg/kg bw/day, no adverse effect observed |

#### - Development

| Substance  |
|--|
| Ethylene glycol, CAS: 107-21-1                                 |
| NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed |

#### Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

| Substance   |        |
|---|--------|
| Ethylene glycol, CAS: 107-21-1  |        |
| NOAEL, oral, Rat, 1000 mg/kg bw/day, In vivo study, no adverse effect obs | served |

|      | Aspiration hazard                         | Based on the available information, the classification criteria are not fulfilled.  |  |
|------|---|---|--|
|      | General remarks                           |   |  |
|      |   | Toxicological data of complete product are not available.<br>The toxicity data listed pertaining to the ingredients are intended for those working in the<br>medicinal professions, experts for occupational health and safety and toxicologists. |  |
| 11.2 | Information on other hazards              |   |  |
|      | 11.2.1 Endocrine disrupting<br>properties | Contains no ingredients with endocrine-disrupting properties.   |  |

none

11.2.2 Other information

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### **SECTION 12: Ecological information**

# 12.1 Toxicity

| Product  |  |  |
|--|--|--|
| Based on the available information, the classification criteria are not fulfilled. |  |  |
|  |  |  |
| Substance  |  |  |
| Ethylene glycol, CAS: 107-21-1   |  |  |
| _C50, (28d), fish, 1.5 g/L   |  |  |
| _C50, (3d), fish, 72.86 g/L  |  |  |
| EC50, (4d), Invertebrates, 3.536 - 13 g/L  |  |  |
| EC50, (21d), Invertebrates, 33.911 g/L   |  |  |
| EC50, (48h), Invertebrates, 100 mg/L   |  |  |
| Methyl-1H-benzotriazole, CAS: 29385-43-1   |  |  |
| _C50, (96h), fish, 55 - 180 mg/L   |  |  |
| EC50, (72h), Algae, 29 - 75 mg/L   |  |  |
| EC50, (48h), Invertebrates, 8.58 - 15.8 mg/L                                       |  |  |
| NOEC, (21d), Invertebrates, 18.4 mg/L  |  |  |

### 12.2 Persistence and degradability

| Behaviour in environment<br>compartments |                |
|--|----------------|
| Behaviour in sewage plant                | not determined |
| Biological degradability                 | Biodegradable. |

#### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Do not discharge product unmonitored into the environment or into the drainage. Ecological data of complete product are not available.

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## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

|      | Product   |  |
|------|---|--|
|      |   | Dispose of as hazardous waste.<br>Disposal in an incineration plant in accordance with the regulations of the local authorities. |
|      | Waste no. (recommended)   | 160114*  |
|      | Contaminated packaging  |  |
|      |   | Uncontaminated packaging may be taken for recycling.<br>Packaging that cannot be cleaned should be disposed of as for product.   |
|      | Waste no. (recommended)   | 150110* packaging containing residues of or contaminated by hazardous substances<br>150102<br>150104                             |
| SEC  | TION 14: Transport information  |  |
| 14.1 | UN number or ID number  |  |
|      | Transport by land according to<br>ADR/RID                               | not applicable   |
|      | Inland navigation (ADN)   | not applicable   |
|      | Marine transport in accordance with IMDG                                | not applicable   |
|      | Air transport in accordance with IATA                                   | not applicable   |
| 14.2 | UN proper shipping name<br>Transport by land according to<br>ADR/RID    | NO DANGEROUS GOODS   |
|      | Inland navigation (ADN)   | NO DANGEROUS GOODS   |
|      | Marine transport in accordance with IMDG                                | NOT CLASSIFIED AS "DANGEROUS GOODS"  |
|      | Air transport in accordance with IATA                                   | NOT CLASSIFIED AS "DANGEROUS GOODS"  |
| 14.3 | Transport hazard class(es)<br>Transport by land according to<br>ADR/RID | not applicable   |
|      | Inland navigation (ADN)   | not applicable   |
|      | Marine transport in accordance with IMDG                                | not applicable   |
|      | Air transport in accordance with IATA                                   | not applicable   |

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| 14.4 | Packing group<br>Transport by land according to<br>ADR/RID | not applicable |
|------|--|----------------|
|      | Inland navigation (ADN)                                    | not applicable |
|      | Marine transport in accordance with IMDG                   | not applicable |
|      | Air transport in accordance with IATA                      | not applicable |
| 14.5 | Environmental hazards                                      |                |
|      | Transport by land according to ADR/RID                     | no             |
|      | Inland navigation (ADN)                                    | no             |
|      | Marine transport in accordance with IMDG                   | no             |
|      | Air transport in accordance with IATA                      | no             |
|      | Outside and a settle set for success                       |                |

## 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

# **SECTION 15: Regulatory information**

| 15.1 | afety, health and environmental regulations/legislation specific for the substance or mixture |  |  |
|------|---|--|--|
|      | EEC-REGULATIONS   | 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006<br>(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;<br>(EU) 517/2014 |  |
|      | Comment on component parts  | Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  |  |
|      | - Annex XIV (REACH)   | According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq$ 0.1% that are subject to authorisation.                                 |  |
|      | - Annex XVII (REACH)  | According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 3, 75                                    |  |
|      |   | According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3   |  |
|      | TRANSPORT-REGULATIONS   | ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)   |  |
|      | NATIONAL REGULATIONS (GB):  | EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.   |  |
|      | - Observe employment restrictions for people  | Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.   |  |
|      | - VOC (2010/75/CE)  | 0%   |  |
| 15 2 | Chamical asfaty assassment  |  |  |

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

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## **SECTION 16: Other information**

#### 16.1 Hazard statements (SECTION 3)

- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H361d Suspected of damaging the unborn child.
- H411 Toxic to aquatic life with long lasting effects.

H373 May cause damage to organs through prolonged or repeated exposure. H302 Harmful if swallowed.

#### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level

- EC50 = Median effective concentration
- ECB = European Chemicals Bureau
- EEC = European Economic Community
- EINECS = European Inventory of Existing Commercial Chemical Substances
- EL50 = Median effective loading
- ELINCS = European List of Notified Chemical Substances
- EmS = Emergency Schedules
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IC50 = Inhibition concentration, 50%
- IMDG = International Maritime Code for Dangerous Goods
- IUCLID = International Uniform ChemicaL Information Database
- IVIS = In vitro irritation score
- LC50 = Lethal concentration, 50%
- LD50 = Median lethal dose LC0 = lethal concentration, 0%
- LOAEL = lowest-observed-adverse-effect level
- LL50 = Median lethal loading
- LQ = Limited Quantities
- MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level
- NOEC = No Observed Effect Concentration
- PBT = Persistent, Bioaccumulative and Toxic substance
- PNEC = Predicted No-Effect Concentration
- REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
- STP = Sewage Treatment Plant
- TLV®/TWA = Threshold limit value time-weighted average TLV®STEL = Threshold limit value short-time exposure limit
- VOC = Volatile Organic Compounds
- vPvB = very Persistent and very Bioaccumulative

#### 16.3 Other information

**Classification procedure** 

Acute Tox. 4: H302 Harmful if swallowed. (Calculation method) STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)

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**Modified position** 

SECTION 3 been added: Potassium isononanoate SECTION 3 deleted: potassium 2-ethylhexanoate SECTION 2 deleted: P337+P313 If eye irritation persists: Get medical advice / attention. SECTION 2 deleted: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. SECTION 2 deleted: P280 Wear eye protection / face protection. SECTION 2 deleted: H319 Causes serious eye irritation. SECTION 2 deleted: Eye Irrit. 2 SECTION 11 deleted: Irritant