



# Kroon-Oil Coolant SP 18

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04.09.2023 Revision date: 04.09.2023 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Kroon-Oil Coolant SP 18  
UFI : 9QPX-C8YU-X00A-S5V2  
Product code : 09.10.20  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Industrial use, Professional use, Consumer use  
Use of the substance/mixture : Antifreeze and coolant  
Function or use category : Anti-freezing agents

##### 1.2.2. Uses advised against

No additional information available

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

Kroon-Oil B.V.  
Dollegoorweg 15  
NL- 7602 EC Almelo  
Netherlands  
T 0031 (0)546 81 81 65  
[vib@kroon-oil.nl](mailto:vib@kroon-oil.nl)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company  | Address                           | Emergency number   | Comment                              |
|----------------|---|-----------------------------------|--|--------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                                  | PO Box 1297<br>Beaumont Road<br>9 | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| United Kingdom | National Poisons Information Service<br>(Cardiff Centre)<br>University Hospital Llandough | Penlan Road<br>CF64 2XX           | 0344 892 0111  | Only for healthcare<br>professionals |

### SECTION 2: Hazards identification

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

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

Acute toxicity (oral), Category 4 H302  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

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

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### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Warning

Contains : 1,2-ethanediol

Hazard statements (CLP) : H302 - Harmful if swallowed.  
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).

Precautionary statements (CLP) : 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, mist.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P314 - Get medical advice/attention if you feel unwell.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  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 is 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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name  | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                           |
|---|--|---------|---|
| 1,2-ethanediol<br>substance with national workplace exposure limit(s) (GB, IE); substance with a Community workplace exposure limit | CAS-No.: 107-21-1<br>EC-No.: 203-473-3<br>EC Index-No.: 603-027-00-1<br>REACH-no: 01-2119456816-28 | 25 – 80 | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373  |
| Methyl-1H-benzotriazole   | CAS-No.: 29385-43-1<br>EC-No.: 249-596-6<br>REACH-no: 01-2119979081-35                             | < 0,3   | Acute Tox. 4 (Oral), H302<br>Repr. 2, H361d<br>Aquatic Chronic 2, H411                    |
| Potassium (2-benzothiazolyl)-thio-acetate   | -  | < 0,3   | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318<br>Repr. 2, H361<br>Aquatic Chronic 3, H412 |

Comments : The product has a bitter taste for safety reasons, in case it is swallowed accidentally  
Full text of H- and EUH-statements: see section 16

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### 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    | : Rinse mouth. If you feel unwell, seek medical advice.          |

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

|                                   |  |
|-----------------------------------|--|
| Symptoms/effects                  | : No additional information available.   |
| Symptoms/effects after inhalation | : Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness. |
| Symptoms/effects after ingestion  | : Ingestion may cause nausea, vomiting and diarrhea.   |

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

Treat symptomatically. Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

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

#### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| 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

##### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Emergency procedures | : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. |
|----------------------|---|

##### 6.1.2. 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". |
|----------------------|---|

#### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material.                 |
| 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.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.  
Storage temperature : 0 – 40 °C

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

| 1,2-ethanediol (107-21-1)                                 |  |
|---|--|
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |  |
| Local name  | Ethylene glycol  |
| IOEL TWA  | 52 mg/m <sup>3</sup>   |
| IOEL TWA [ppm]  | 20 ppm   |
| IOEL STEL   | 104 mg/m <sup>3</sup>  |
| IOEL STEL [ppm]   | 40 ppm   |
| Remark  | Skin   |
| Regulatory reference                                      | COMMISSION DIRECTIVE 2000/39/EC  |
| <b>Ireland - Occupational Exposure Limits</b>             |  |
| Local name  | Ethane-1,2-diol [Ethylene glycol]  |
| OEL TWA [1]   | 10 mg/m <sup>3</sup> particulate<br>52 mg/m <sup>3</sup> vapour  |
| OEL TWA [2]   | 20 ppm vapour  |
| OEL STEL  | 104 mg/m <sup>3</sup> vapour   |
| OEL STEL [ppm]  | 40 ppm vapour  |
| Remark  | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference                                      | Chemical Agents Code of Practice 2021  |
| <b>United Kingdom - Occupational Exposure Limits</b>      |  |
| Local name  | Ethane-1,2-diol  |
| WEL TWA (OEL TWA) [1]                                     | 10 mg/m <sup>3</sup> particulate<br>52 mg/m <sup>3</sup> vapour  |
| WEL TWA (OEL TWA) [2]                                     | 20 ppm vapour  |
| WEL STEL (OEL STEL)                                       | 104 mg/m <sup>3</sup> vapour   |

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| 1,2-ethanediol (107-21-1)   |   |
|---|---|
| WEL STEL (OEL STEL) [ppm]   | 40 ppm vapour   |
| Remark  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference  | EH40/2005 (Fourth edition, 2020). HSE   |
| Methyl-1H-benzotriazole (29385-43-1)  |   |
| EU - Indicative Occupational Exposure Limit (IOEL)  |   |
| Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended | 5 mg/m <sup>3</sup> - ACGIH TLV (inhalable fraction).   |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

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



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

| Eye protection |                      |                 |          |
|----------------|----------------------|-----------------|----------|
| Type           | Field of application | Characteristics | Standard |
| Safety glasses | Droplet              | clear           | EN 166   |

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

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| Hand protection |                      |                   |                |             |            |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Type            | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥0.35          |             | EN ISO 374 |

### Other skin protection

#### Materials for protective clothing:

Wear suitable protective clothing

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. 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  | : Green.   |
| Appearance                                      | : fluorescent.   |
| Odour   | : characteristic.  |
| Odour threshold                                 | : Not available  |
| Melting point                                   | : Not applicable   |
| Freezing point                                  | : -36 °C   |
| Boiling point                                   | : 100 – 197 °C   |
| Flammability                                    | : Not applicable   |
| Explosive properties                            | : Presents no particular fire or explosion hazard.   |
| Lower explosion limit                           | : Not available  |
| Upper explosion limit                           | : Not available  |
| Flash point                                     | : Derived from flash point MEG (CAS: 107-21-1): 111 °C. Because of the presence of water, a flashpoint cannot be measured. |
| Auto-ignition temperature                       | : Not available  |
| Decomposition temperature                       | : Not available  |
| pH  | : 8,2  |
| pH solution concentration                       | : 100 %  |
| Viscosity, kinematic                            | : Not available  |
| Solubility                                      | : Water: Miscible in all proportions   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available  |
| Vapour pressure                                 | : Not available  |
| Vapour pressure at 50°C                         | : Not available  |
| Density   | : 1,072 kg/l (15 °C) - ASTM D4052  |
| Relative density                                | : Not available  |
| Relative vapour density at 20°C                 | : Not available  |
| Particle characteristics                        | : Not applicable   |

### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 0 %

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 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

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No decomposition if stored normally.

### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Kroon-Oil Coolant SP 18              |   |
|--------------------------------------|---|
| ATE CLP (oral)                       | 964,524 mg/kg bodyweight  |
| 1,2-ethanediol (107-21-1)            |   |
| LD50 oral rat                        | 7712 mg/kg bodyweight   |
| LD50 oral                            | There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated fatal dose for man is 30-100 milliliters. This material has also been shown to be toxic and potentially lethal by ingestion to cats and dogs. |
| LD50 dermal                          | 3500 mg/kg bodyweight mouse   |
| LC50 Inhalation - Rat                | > 2,5 mg/l  |
| Methyl-1H-benzotriazole (29385-43-1) |   |
| LD50 oral rat                        | > 720 mg/kg   |
| LD50 dermal rabbit                   | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)   |
| LC50 Inhalation - Rat                | > 1730 mg/m <sup>3</sup> (1h)   |

Skin corrosion/irritation : Not classified  
pH: 8,2

| Methyl-1H-benzotriazole (29385-43-1) |       |
|--------------------------------------|-------|
| pH                                   | 5 – 6 |

Serious eye damage/irritation : Not classified  
pH: 8,2

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| Methyl-1H-benzotriazole (29385-43-1)        |  |
|---|--|
| pH  | 5 – 6  |
| Respiratory or skin sensitisation           | : Not classified   |
| Germ cell mutagenicity                      | : Not classified   |
| Carcinogenicity                             | : Not classified   |
| 1,2-ethanediol (107-21-1)                   |  |
| NOAEL (chronic, oral, animal/male, 2 years) | 1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information) |
| Reproductive toxicity                       | : Not classified   |
| STOT-single exposure                        | : Not classified   |
| STOT-repeated exposure                      | : May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).  |
| 1,2-ethanediol (107-21-1)                   |  |
| STOT-repeated exposure                      | May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).  |
| Methyl-1H-benzotriazole (29385-43-1)        |  |
| NOAEL (oral, rat, 90 days)                  | ≈ 150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)              |
| Aspiration hazard                           | : Not classified   |
| 1,2-ethanediol (107-21-1)                   |  |
| Viscosity, kinematic                        | 14,505 mm <sup>2</sup> /s  |
| Methyl-1H-benzotriazole (29385-43-1)        |  |
| Viscosity, kinematic                        | Not applicable   |

### 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 (chronic) | : Not classified  |

| 1,2-ethanediol (107-21-1)            |   |
|--------------------------------------|---|
| LC50 - Fish [1]                      | 72860 mg/l Test organisms (species): Pimephales promelas  |
| EC50 - Crustacea [1]                 | > 100 mg/l Test organisms (species): Daphnia magna  |
| EC50 96h - Algae [1]                 | 3536 mg/l Test organisms (species): other:greenn algae  |
| EC50 96h - Algae [2]                 | 6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic)                       | ≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'                                       |
| Methyl-1H-benzotriazole (29385-43-1) |   |
| LC50 - Fish [1]                      | 55 mg/l Test organisms (species): Cyprinodon variegatus   |

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| Methyl-1H-benzotriazole (29385-43-1) |  |
|--------------------------------------|--|
| EC50 - Other aquatic organisms [1]   | 15,8 mg/l Test organisms (species): other aquatic crustacea:       |
| EC50 - Other aquatic organisms [2]   | 8,58 mg/l Test organisms (species): other aquatic crustacea:       |
| EC50 72h - Algae [1]                 | 53 mg/l Test organisms (species): Skeletonema costatum             |
| LOEC (chronic)                       | 37,6 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic)                       | 18,4 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

### 12.2. Persistence and degradability

| Kroon-Oil Coolant SP 18       |                               |
|-------------------------------|-------------------------------|
| Persistence and degradability | Biodegradable.                |
| 1,2-ethanediol (107-21-1)     |                               |
| Biodegradation                | 90 % > 10d (OECD 301A method) |

### 12.3. Bioaccumulative potential

| 1,2-ethanediol (107-21-1)                       |                         |
|---|-------------------------|
| Partition coefficient n-octanol/water (Log Kow) | -1,36                   |
| Methyl-1H-benzotriazole (29385-43-1)            |                         |
| Partition coefficient n-octanol/water (Log Pow) | 1,081 (25°C) [OECD 117] |

### 12.4. Mobility in soil

| 1,2-ethanediol (107-21-1)                                  |   |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1 |

### 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

|  |   |
|--|---|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.                     |
| European List of Waste (LoW) code          | : 16 01 14* - antifreeze fluids containing dangerous substances                               |

## SECTION 14: Transport information

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

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| ADR   | IMDG          | IATA          | ADN           | RID           |
|---|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>   |               |               |               |               |
| No dangerous good in sense of transport regulations.(ADR, RID, IMDG, IATA ) |               |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>  |               |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b>                                     |               |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>  |               |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>  |               |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available                                      |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. 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)

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### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### VOC Directive (2004/42)

VOC content : 0 %

### Biocide Regulation (528/2012)

Child-resistant fastening : Not applicable

Tactile warning : Applicable

### 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)

#### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

**For the following substances of this mixture a chemical safety assessment has been carried out:**

Methyl-1H-benzotriazole

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |   |
|--------|---|
| 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)   |
| COD    | Chemical oxygen demand (COD)  |
| DMEL   | Derived Minimal Effect level  |
| DNEL   | Derived-No Effect Level   |
| EC-No. | European Community number   |
| EC50   | Median effective concentration  |
| EN     | European Standard   |
| 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  |
| NOAEC  | No-Observed Adverse Effect Concentration  |
| NOAEL  | No-Observed Adverse Effect Level  |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| NOEC                        | No-Observed Effect Concentration   |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                  |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2  |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |
| H302                                | Harmful if swallowed.  |
| H318                                | Causes serious eye damage.   |
| H361                                | Suspected of damaging fertility or the unborn child.               |
| H361d                               | Suspected of damaging the unborn child.                            |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| H411                                | Toxic to aquatic life with long lasting effects.                   |
| H412                                | Harmful to aquatic life with long lasting effects.                 |
| Repr. 2                             | Reproductive toxicity, Category 2                                  |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |

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.