

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL Penta-Cool WM 650**

Revision date: 13.01.2025

Product code: 770046

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

ADDINOL Penta-Cool WM 650

Product group: Zulieferprodukt  
 UFI: J19G-8W20-V47N-04K3

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Metal working fluids.

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name: ADDINOL Lube Oil GmbH  
 Gebäude 4609  
 Street: Am Haupttor  
 Place: D-06237 Leuna  
 Telephone: +49 (0) 3461 845-0  
 E-mail: info@addinol.de  
 Contact person: Application Technology  
 Internet: www.addinol.de  
 Responsible Department: ADDINOL Application Technology  
 Telefax: +49 (0) 3461 845-555

**Supplier**

Company name: GEM OILS LIMITED  
 Place: IRL-H12K298 Regaskin Co. Cavan  
 Telephone: +353 49 4378116  
 E-mail: sales@gemoils.ie  
 Contact person: GEM OILS LIMITED  
 E-mail: sales@gemoils.ie  
 Internet: https://gemoils.ie/  
 Telefax: +353 49 4368329  
 Telephone: +353 49 4378116

**1.4. Emergency telephone number:**

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Eye Dam. 1; H318  
 Skin Sens. 1; H317  
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

2-phenoxyethanol  
 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one  
 othilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]  
 2-methylisothiazol-3(2H)-one

**Signal word:** Danger

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**Pictograms:****Hazard statements**

- H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P310 Immediately call a POISON CENTER/doctor.  
 P333+P317 If skin irritation or rash occurs: Get medical help.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501 Dispose of contents/container to an appropriate recycling or disposal facility.

**Additional advice on labelling**

The product is classified and labelled according to EC directives or corresponding national laws.

**2.3. Other hazards**

- Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
 Spilled product must not leak into the ground.  
 Do not allow uncontrolled leakage of product into the environment.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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#### Relevant ingredients

| CAS No     | Chemical name                                                                                                                                                          |              |                  | Quantity    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------------|
|            | EC No                                                                                                                                                                  | Index No     | REACH No         |             |
|            | Classification (Regulation (EC) No 1272/2008)                                                                                                                          |              |                  |             |
| 122-99-6   | 2-phenoxyethanol                                                                                                                                                       |              |                  | 5 - < 10 %  |
|            | 204-589-7                                                                                                                                                              | 603-098-00-9 |                  |             |
|            | Acute Tox. 4, Eye Dam. 1, STOT SE 3; H302 H318 H335                                                                                                                    |              |                  |             |
| 68608-26-4 | Sodium sulphonate                                                                                                                                                      |              |                  | 1 - < 5 %   |
|            | 271-781-5                                                                                                                                                              |              |                  |             |
|            | Eye Irrit. 2; H319                                                                                                                                                     |              |                  |             |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated                                                                                                                          |              |                  | 2.5 - < 5 % |
|            | 500-236-9                                                                                                                                                              |              | 01-2119489407-26 |             |
|            | Skin Irrit. 2, Aquatic Chronic 2; H315 H411                                                                                                                            |              |                  |             |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether                                                                                                           |              |                  | < 5 %       |
|            | 203-961-6                                                                                                                                                              | 603-096-00-8 |                  |             |
|            | Eye Irrit. 2; H319                                                                                                                                                     |              |                  |             |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                                                                                               |              |                  | < 0,25 %    |
|            | 220-120-9                                                                                                                                                              | 613-088-00-6 |                  |             |
|            | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H302 H315 H318 H317 H400                                                                       |              |                  |             |
| 26530-20-1 | octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]                                                                                                                  |              |                  | < 0,025 %   |
|            | 247-761-7                                                                                                                                                              | 613-112-00-5 |                  |             |
|            | Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071  |              |                  |             |
| 2682-20-4  | 2-methylisothiazol-3(2H)-one                                                                                                                                           |              |                  | < 0,05 %    |
|            | 220-239-6                                                                                                                                                              | 613-326-00-9 |                  |             |
|            | Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071 |              |                  |             |

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

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**Specific Conc. Limits, M-factors and ATE**

| CAS No     | EC No     | Chemical name                                                                                                                                                                                                                            | Quantity    |
|------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|            |           | Specific Conc. Limits, M-factors and ATE                                                                                                                                                                                                 |             |
| 122-99-6   | 204-589-7 | 2-phenoxyethanol                                                                                                                                                                                                                         | 5 - < 10 %  |
|            |           | dermal: LD50 = >2000 mg/kg; oral: ATE 1394 mg/kg                                                                                                                                                                                         |             |
| 68608-26-4 | 271-781-5 | Sodium sulphonate                                                                                                                                                                                                                        | 1 - < 5 %   |
|            |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg                                                                                                                                                                                   |             |
| 68920-66-1 | 500-236-9 | Alcohols, C16-18 and C18-unsatd., ethoxylated                                                                                                                                                                                            | 2.5 - < 5 % |
|            |           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg                                                                                                                                                                                   |             |
| 112-34-5   | 203-961-6 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether                                                                                                                                                                             | < 5 %       |
|            |           | dermal: LD50 = 4120 mg/kg; oral: LD50 = 5660 mg/kg                                                                                                                                                                                       |             |
| 2634-33-5  | 220-120-9 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                                                                                                                                                                 | < 0,25 %    |
|            |           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100                                                                                                                                                    |             |
| 26530-20-1 | 247-761-7 | octhiline (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]                                                                                                                                                                                      | < 0,025 %   |
|            |           | inhalation: ATE 0,27 mg/l (dusts or mists); dermal: ATE 311 mg/kg; oral: ATE 125 mg/kg<br>Skin Sens. 1A; H317: >= 0,0015 - 100<br>Aquatic Acute 1; H400: M=100<br>Aquatic Chronic 1; H410: M=100                                         |             |
| 2682-20-4  | 220-239-6 | 2-methylisothiazol-3(2H)-one                                                                                                                                                                                                             | < 0,05 %    |
|            |           | inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 242 mg/kg; oral: LD50 = 120 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100<br>Aquatic Acute 1; H400: M=10<br>Aquatic Chronic 1; H410: M=1 |             |

**Further Information**

DMSO-Extract < 3 %; IP 346. Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. Protect skin by using skin protective cream. In case of skin irritation, seek medical treatment.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting.  
Rinse mouth thoroughly with water. Call a physician immediately.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

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#### Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Sand. Atomized water.

#### Unsuitable extinguishing media

High power water jet.

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

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide Sulphur dioxide (SO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). carbon black.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

### SECTION 6: Accidental release measures

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

##### General advice

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

##### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist. If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.

##### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

##### Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

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

##### Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

##### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

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Keep away from: Oxidizing agent.

**Further information on storage conditions**

Protect against: UV-radiation/sunlight. frost. heat.

Recommended storage temperature: 5 - 40°C

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

Further information: see technical data sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

| CAS No   | Substance                 | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|----------|---------------------------|-----|-------------------|---------------------|---------------|--------|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 10  | 67.5              |                     | TWA (8 h)     |        |
|          |                           | 15  | 101.2             |                     | STEL (15 min) |        |

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#### DNEL/DMEL values

| CAS No                   | Substance                                                    |          |                         |
|--------------------------|--------------------------------------------------------------|----------|-------------------------|
| DNEL type                | Exposure route                                               | Effect   | Value                   |
| 122-99-6                 | 2-phenoxyethanol                                             |          |                         |
| Worker DNEL, long-term   | inhalation                                                   | local    | 5,7 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term | inhalation                                                   | systemic | 2,41 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term | inhalation                                                   | local    | 2,41 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term | dermal                                                       | systemic | 10,42 mg/kg bw/day      |
| Consumer DNEL, long-term | oral                                                         | systemic | 9,23 mg/kg bw/day       |
| Consumer DNEL, acute     | oral                                                         | systemic | 9,23 mg/kg bw/day       |
| Worker DNEL, long-term   | dermal                                                       | systemic | 20,83 mg/kg bw/day      |
| Worker DNEL, long-term   | inhalation                                                   | systemic | 5,7 mg/m <sup>3</sup>   |
| 68608-26-4               | Sodium sulphonate                                            |          |                         |
| Worker DNEL, long-term   | inhalation                                                   | systemic | 0,66 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   | dermal                                                       | systemic | 3,33 mg/kg bw/day       |
| Consumer DNEL, long-term | inhalation                                                   | systemic | 0,33 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term | dermal                                                       | systemic | 1,667 mg/kg bw/day      |
| Consumer DNEL, long-term | oral                                                         | systemic | 0,833 mg/kg bw/day      |
| 68920-66-1               | Alcohols, C16-18 and C18-unsatd., ethoxylated                |          |                         |
| Consumer DNEL, long-term | inhalation                                                   | systemic | 87 mg/m <sup>3</sup>    |
| Consumer DNEL, long-term | dermal                                                       | systemic | 1250 mg/kg bw/day       |
| Consumer DNEL, long-term | oral                                                         | systemic | 25 mg/kg bw/day         |
| Worker DNEL, long-term   | dermal                                                       | systemic | 2080 mg/kg bw/day       |
| Worker DNEL, long-term   | inhalation                                                   | systemic | 294 mg/m <sup>3</sup>   |
| 112-34-5                 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether |          |                         |
| Worker DNEL, long-term   | inhalation                                                   | local    | 67,5 mg/m <sup>3</sup>  |
| Worker DNEL, acute       | inhalation                                                   | local    | 101,2 mg/m <sup>3</sup> |
| Consumer DNEL, long-term | oral                                                         | systemic | 6,25 mg/kg bw/day       |
| 2634-33-5                | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one     |          |                         |
| Worker DNEL, long-term   | inhalation                                                   | systemic | 6,81 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   | dermal                                                       | systemic | 0,966 mg/kg bw/day      |
| Consumer DNEL, long-term | inhalation                                                   | systemic | 1,2 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term | dermal                                                       | systemic | 0,345 mg/kg bw/day      |
| 2682-20-4                | 2-methylisothiazol-3(2H)-one                                 |          |                         |
| Worker DNEL, long-term   | inhalation                                                   | local    | 0,021 mg/m <sup>3</sup> |
| Worker DNEL, acute       | inhalation                                                   | local    | 0,043 mg/m <sup>3</sup> |

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|--------------------------|------------|----------|-------------------------|
| Consumer DNEL, long-term | inhalation | local    | 0,021 mg/m <sup>3</sup> |
| Consumer DNEL, acute     | inhalation | local    | 0,043 mg/m <sup>3</sup> |
| Consumer DNEL, long-term | oral       | systemic | 0,027 mg/kg<br>bw/day   |
| Consumer DNEL, acute     | oral       | systemic | 0,053 mg/kg<br>bw/day   |



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#### PNEC values

| CAS No                                           | Substance                                                    | Value           |
|--------------------------------------------------|--------------------------------------------------------------|-----------------|
| Environmental compartment                        |                                                              |                 |
| 122-99-6                                         | 2-phenoxyethanol                                             |                 |
| Freshwater                                       |                                                              | 0,943 mg/l      |
| Freshwater (intermittent releases)               |                                                              | 3,44 mg/l       |
| Marine water                                     |                                                              | 0,094 mg/l      |
| Freshwater sediment                              |                                                              | 7,237 mg/kg     |
| Marine sediment                                  |                                                              | 0,724 mg/kg     |
| Micro-organisms in sewage treatment plants (STP) |                                                              | 36 mg/l         |
| Soil                                             |                                                              | 1,31 mg/kg      |
| 68608-26-4                                       | Sodium sulphonate                                            |                 |
| Freshwater                                       |                                                              | 1 mg/l          |
| Freshwater (intermittent releases)               |                                                              | 10 mg/l         |
| Marine water                                     |                                                              | 1 mg/l          |
| Freshwater sediment                              |                                                              | 723500000 mg/kg |
| Marine sediment                                  |                                                              | 723500000 mg/kg |
| Secondary poisoning                              |                                                              | 16,667 mg/kg    |
| Micro-organisms in sewage treatment plants (STP) |                                                              | 100 mg/l        |
| Soil                                             |                                                              | 868700000 mg/kg |
| 68920-66-1                                       | Alcohols, C16-18 and C18-unsatd., ethoxylated                |                 |
| Freshwater                                       |                                                              | 0,007 mg/l      |
| Freshwater (intermittent releases)               |                                                              | 0,1 mg/l        |
| Marine water                                     |                                                              | 0,001 mg/l      |
| Freshwater sediment                              |                                                              | 22,79 mg/kg     |
| Marine sediment                                  |                                                              | 2,28 mg/kg      |
| Micro-organisms in sewage treatment plants (STP) |                                                              | 10000 mg/l      |
| Soil                                             |                                                              | 1 mg/kg         |
| 112-34-5                                         | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether |                 |
| Freshwater                                       |                                                              | 1,1 mg/l        |
| Freshwater (intermittent releases)               |                                                              | 11 mg/l         |
| Marine water                                     |                                                              | 0,11 mg/l       |
| Freshwater sediment                              |                                                              | 4,4 mg/kg       |
| Marine sediment                                  |                                                              | 0,44 mg/kg      |
| Secondary poisoning                              |                                                              | 56 mg/kg        |
| Soil                                             |                                                              | 0,32 mg/kg      |
| 2634-33-5                                        | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one     |                 |
| Freshwater                                       |                                                              | 0,00403 mg/l    |
| Freshwater (intermittent releases)               |                                                              | 0,0011 mg/l     |
| Marine water                                     |                                                              | 0,000403 mg/l   |
| Freshwater sediment                              |                                                              | 0,0499 mg/kg    |
| Marine sediment                                  |                                                              | 0,00499 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) |                                                              | 1,03 mg/l       |

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|--------------------------------------------------|-----------------------------------------------------|---------------|
| Soil                                             |                                                     | 3 mg/kg       |
| 26530-20-1                                       | octhiline (ISO); 2-octyl-2H-isothiazol-3-one; [OIT] |               |
| Freshwater                                       |                                                     | 0,0022 mg/l   |
| Freshwater (intermittent releases)               |                                                     | 0,00122 mg/l  |
| Marine water                                     |                                                     | 0,00022 mg/l  |
| Freshwater sediment                              |                                                     | 0,0475 mg/kg  |
| Marine sediment                                  |                                                     | 0,00475 mg/kg |
| Soil                                             |                                                     | 0,0082 mg/kg  |
| 2682-20-4                                        | 2-methylisothiazol-3(2H)-one                        |               |
| Freshwater                                       |                                                     | 0,00339 mg/l  |
| Freshwater (intermittent releases)               |                                                     | 0,00339 mg/l  |
| Marine water                                     |                                                     | 0,00339 mg/l  |
| Micro-organisms in sewage treatment plants (STP) |                                                     | 0,23 mg/l     |
| Soil                                             |                                                     | 0,047 mg/kg   |

#### Additional advice on limit values

source:

Recommended limit value for cooling lubricants (steam and aerosol)

MAK: 10 mg/m<sup>3</sup>

#### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN ISO 16321

##### Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

##### Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

##### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. full mask (DIN EN 136). Cosaint riospráide le scaoire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe > 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

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## SECTION 9: Physical and chemical properties

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

|                  |                    |
|------------------|--------------------|
| Physical state:  | liquid             |
| Colour:          | brown              |
| Odour:           | like: mineral oil. |
| Odour threshold: | not determined     |

#### Test method

|                                                           |                                          |
|-----------------------------------------------------------|------------------------------------------|
| Melting point/freezing point:                             | No data available                        |
| Boiling point or initial boiling point and boiling range: | > 100 °C                                 |
| Flammability:                                             | No data available                        |
| Lower explosion limits:                                   | No data available                        |
| Upper explosion limits:                                   | No data available                        |
| Flash point:                                              | > 100 °C DIN EN ISO 2592                 |
| Auto-ignition temperature:                                | > 240 °C                                 |
| Decomposition temperature:                                | No data available                        |
| pH-Value (at 20 °C):                                      | 9,0 4% - DIN 51369                       |
| Viscosity / kinematic:<br>(at 20 °C)                      | 300 mm <sup>2</sup> /s DIN EN ISO 3104   |
| Water solubility:                                         | highly soluble.                          |
| Solubility in other solvents                              |                                          |
| No data available                                         |                                          |
| Partition coefficient n-octanol/water:                    | No data available                        |
| Vapour pressure:                                          | No data available                        |
| Density (at 15 °C):                                       | 0,974 g/cm <sup>3</sup> DIN EN ISO 12185 |
| Relative vapour density:                                  | No data available                        |
| Particle characteristics:                                 | No data available                        |

### 9.2. Other information

#### Information with regard to physical hazard classes

|                           |                   |
|---------------------------|-------------------|
| Explosive properties      |                   |
| No data available         |                   |
| Self-ignition temperature |                   |
| Solid:                    | No data available |
| Gas:                      | No data available |
| Oxidizing properties      |                   |
| No data available         |                   |

#### Other safety characteristics

|                   |                   |
|-------------------|-------------------|
| Evaporation rate: | No data available |
| Pour point:       | No data available |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Refer to chapter 7 No further action is necessary.

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**10.5. Incompatible materials**

Reacts with : Oxidising agent, strong

**10.6. Hazardous decomposition products**In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide Sulphur dioxide (SO<sub>2</sub>).. Nitrogen oxides (NO<sub>x</sub>). carbon black.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**Based on available data, the classification criteria are not met.  
Mixture not tested.**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

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| CAS No     | Chemical name                                                |                   |         |                     |                    |
|------------|--------------------------------------------------------------|-------------------|---------|---------------------|--------------------|
|            | Exposure route                                               | Dose              | Species | Source              | Method             |
| 122-99-6   | 2-phenoxyethanol                                             |                   |         |                     |                    |
|            | oral                                                         | ATE 1394 mg/kg    |         |                     |                    |
|            | dermal                                                       | LD50 >2000 mg/kg  | Rabbit  |                     |                    |
| 68608-26-4 | Sodium sulphonate                                            |                   |         |                     |                    |
|            | oral                                                         | LD50 > 5000 mg/kg | Rat     | Study report (1985) | OECD Guideline 401 |
|            | dermal                                                       | LD50 > 5000 mg/kg | Rabbit  | Study report (1981) | OECD Guideline 402 |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated                |                   |         |                     |                    |
|            | oral                                                         | LD50 > 2000 mg/kg | Rat     | Study report (1982) | OECD Guideline 401 |
|            | dermal                                                       | LD50 > 2000 mg/kg | Rabbit  | Study report (1982) | OECD Guideline 402 |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether |                   |         |                     |                    |
|            | oral                                                         | LD50 5660 mg/kg   | Rat     |                     |                    |
|            | dermal                                                       | LD50 4120 mg/kg   | Rabbit  |                     |                    |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one     |                   |         |                     |                    |
|            | oral                                                         | LD50 670 mg/kg    | Rat     | Study report (1988) | OECD Guideline 401 |
|            | dermal                                                       | LD50 > 2000 mg/kg | Rat     | Study report (1994) | OECD Guideline 402 |
| 26530-20-1 | octhilonone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]        |                   |         |                     |                    |
|            | oral                                                         | ATE 125 mg/kg     |         |                     |                    |
|            | dermal                                                       | ATE 311 mg/kg     |         |                     |                    |
|            | inhalation dust/mist                                         | ATE 0,27 mg/l     |         |                     |                    |
| 2682-20-4  | 2-methylisothiazol-3(2H)-one                                 |                   |         |                     |                    |
|            | oral                                                         | LD50 120 mg/kg    | Rat     | Study report (2002) | EPA OPPTS 870.1100 |
|            | dermal                                                       | LD50 242 mg/kg    | Rat     | Study report (1999) | OECD Guideline 402 |
|            | inhalation vapour                                            | ATE 0,5 mg/l      |         |                     |                    |
|            | inhalation dust/mist                                         | ATE 0,05 mg/l     |         |                     |                    |

#### Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction. (1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; octhilonone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]; 2-methylisothiazol-3(2H)-one)

#### Carcinogenic/mutagenic/toxic effects 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.

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**STOT-repeated exposure**

Based on available data, the classification criteria are not met.  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****Endocrine disrupting properties**

not applicable

**SECTION 12: Ecological information****12.1. Toxicity**

Harmful to aquatic life with long lasting effects.  
Mixture not tested.

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| CAS No     | Chemical name                                                |                     |           |                                                     |                            |                                          |
|------------|--------------------------------------------------------------|---------------------|-----------|-----------------------------------------------------|----------------------------|------------------------------------------|
|            | Aquatic toxicity                                             | Dose                | [h]   [d] | Species                                             | Source                     | Method                                   |
| 122-99-6   | 2-phenoxyethanol                                             |                     |           |                                                     |                            |                                          |
|            | Acute fish toxicity                                          | LC50 220 - 460 mg/l | 96 h      | Leuciscus idus                                      |                            |                                          |
|            | Acute algae toxicity                                         | ErC50 > 500 mg/l    | 72 h      | Scenedesmus sp.                                     |                            |                                          |
|            | Acute crustacea toxicity                                     | EC50 > 500 mg/l     | 48 h      | Daphnia magna                                       |                            |                                          |
| 68608-26-4 | Sodium sulphonate                                            |                     |           |                                                     |                            |                                          |
|            | Acute algae toxicity                                         | ErC50 > 1000 mg/l   | 72 h      | Pseudokirchneriella subcapitata                     | Study report (1994)        | EPA OTS 797.1050                         |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated                |                     |           |                                                     |                            |                                          |
|            | Acute fish toxicity                                          | LC50 108 mg/l       | 96 h      | Danio rerio                                         | Study report (2008)        | OECD Guideline 203                       |
|            | Acute algae toxicity                                         | ErC50 > 100 mg/l    | 72 h      | Desmodesmus subspicatus                             | Study report (1997)        | other: EU-Guideline 92/69/EWG            |
|            | Acute crustacea toxicity                                     | EL50 51 mg/l        | 48 h      | Daphnia magna                                       | Study report (2000)        | OECD Guideline 202                       |
|            | Fish toxicity                                                | NOEC 0,16 mg/l      | 10 d      | Pimephales promelas                                 | Study report (1995)        | The effect of the test substance on surv |
|            | Crustacea toxicity                                           | NOEC 0,77 mg/l      | 21 d      | Daphnia magna                                       | Publication (1999)         | other: USEPA-TSCA                        |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether |                     |           |                                                     |                            |                                          |
|            | Acute algae toxicity                                         | ErC50 > 100 mg/l    |           | Scenedesmus sp.                                     |                            |                                          |
|            | Acute crustacea toxicity                                     | EC50 > 100 mg/l     | 48 h      | Daphnia magna                                       |                            |                                          |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one     |                     |           |                                                     |                            |                                          |
|            | Acute fish toxicity                                          | LC50 ca. 16,7 mg/l  | 96 h      | Cyprinodon variegatus                               | REACH Registration Dossier | other:                                   |
|            | Acute algae toxicity                                         | ErC50 0,15 mg/l     | 72 h      | Raphidocelis subcapitata                            | Study report (1994)        | OECD Guideline 201                       |
|            | Acute crustacea toxicity                                     | EC50 2,94 mg/l      | 48 h      | Daphnia magna                                       | Study report (1995)        | OECD Guideline 202                       |
|            | Acute bacteria toxicity                                      | EC50 13 mg/l ( )    | 3 h       | activated sludge of a predominantly domestic sewage | REACH Registration Dossier | OECD Guideline 209                       |
| 26530-20-1 | octhlinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]         |                     |           |                                                     |                            |                                          |
|            | Acute fish toxicity                                          | LC50 0,122 mg/l     | 96 h      |                                                     | Study report (2018)        | other: From Episuite v4.11               |
|            | Acute algae toxicity                                         | ErC50 0,15 mg/l     | 96 h      |                                                     | Study report (2018)        | other: From Episuite v4.11               |
|            | Acute crustacea toxicity                                     | EC50 0,181 mg/l     | 48 h      | Daphnia sp.                                         | Study report (2018)        | other: From Episuite v4.11               |
| 2682-20-4  | 2-methylisothiazol-3(2H)-one                                 |                     |           |                                                     |                            |                                          |
|            | Acute fish toxicity                                          | LC50 4,77 mg/l      | 96 h      | Oncorhynchus mykiss                                 | REACH Registration Dossier | EPA OPP 72-1                             |

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|  |                          |               |           |      |                                                           |                                  |                       |
|--|--------------------------|---------------|-----------|------|-----------------------------------------------------------|----------------------------------|-----------------------|
|  | Acute algae toxicity     | ErC50<br>mg/l | 0,069     | 96 h | Skeletonema<br>costatum                                   | Study report<br>(2004)           | EPA OPPTS<br>850.5400 |
|  | Acute crustacea toxicity | EC50<br>mg/l  | 0,934     | 48 h | Daphnia magna                                             | REACH<br>Registration<br>Dossier | EPA OPP 72-2          |
|  | Fish toxicity            | NOEC<br>mg/l  | 4,93      | 98 d | Oncorhynchus mykiss                                       | REACH<br>Registration<br>Dossier | EPA OPPTS<br>850.1400 |
|  | Crustacea toxicity       | NOEC<br>mg/l  | 0,044     | 21 d | Daphnia magna                                             | REACH<br>Registration<br>Dossier | EPA OPPTS<br>850.1300 |
|  | Acute bacteria toxicity  | EC50<br>)     | 41 mg/l ( | 3 h  | activated sludge of a<br>predominantly<br>domestic sewage | REACH<br>Registration<br>Dossier | OECD Guideline<br>209 |

**12.2. Persistence and degradability**

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

**12.3. Bioaccumulative potential**

Mixture not tested.

**Partition coefficient n-octanol/water**

| CAS No     | Chemical name                                                | Log Pow     |
|------------|--------------------------------------------------------------|-------------|
| 122-99-6   | 2-phenoxyethanol                                             | 1,16        |
| 68608-26-4 | Sodium sulphonate                                            | 18,05       |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated                | ca. 7,19    |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | 0,56 (25°C) |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one     | 0,63        |
| 26530-20-1 | octhilonone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]        | 2,61        |
| 2682-20-4  | 2-methylisothiazol-3(2H)-one                                 | -0,486      |

**BCF**

| CAS No     | Chemical name                                            | BCF      | Species             | Source               |
|------------|----------------------------------------------------------|----------|---------------------|----------------------|
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated            | 387,5    | Pimephales promelas | Publication (2000)   |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | ca. 6,62 | Lepomis macrochirus | REACH Registration D |
| 26530-20-1 | octhilonone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]    | 1,284    | fish unspecified    | Study report (2018)  |
| 2682-20-4  | 2-methylisothiazol-3(2H)-one                             | 5,75     | Lepomis macrochirus | REACH Registration D |

**12.4. Mobility in soil**

Is eliminable from water only with difficulty.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No data available

**Further information**

Do not allow uncontrolled leakage of product into the environment.

**SECTION 13: Disposal considerations**



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**13.1. Waste treatment methods****Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

**List of Wastes Code - residues/unused products**

120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number or ID number:** -  
**14.2. UN proper shipping name:** -  
**14.3. Transport hazard class(es):** -  
**14.4. Packing group:** -

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** -  
**14.2. UN proper shipping name:** -  
**14.3. Transport hazard class(es):** -  
**14.4. Packing group:** -

**Marine transport (IMDG)**

**14.1. UN number or ID number:** -  
**14.2. UN proper shipping name:** -  
**14.3. Transport hazard class(es):** -  
**14.4. Packing group:** -

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** -  
**14.2. UN proper shipping name:** -  
**14.3. Transport hazard class(es):** -  
**14.4. Packing group:** -

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

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

not applicable

**Other applicable information**

No dangerous good in sense of these transport regulations.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 55, Entry 75

**National regulatory information**

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Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 3,4,5,6,7,8,9,10,12.

**Abbreviations and acronyms**

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO - Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN - European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Eye Dam. 1; H318        | Calculation method       |
| Skin Sens. 1; H317      | Calculation method       |
| Aquatic Chronic 3; H412 | Calculation method       |

**Relevant H and EUH statements (number and full text)**

H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.

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| H315   | Causes skin irritation.                               |
| H317   | May cause an allergic skin reaction.                  |
| H318   | Causes serious eye damage.                            |
| H319   | Causes serious eye irritation.                        |
| H330   | Fatal if inhaled.                                     |
| H335   | May cause respiratory irritation.                     |
| H400   | Very toxic to aquatic life.                           |
| H410   | Very toxic to aquatic life with long lasting effects. |
| H411   | Toxic to aquatic life with long lasting effects.      |
| H412   | Harmful to aquatic life with long lasting effects.    |
| EUH071 | Corrosive to the respiratory tract.                   |

**Further Information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*