# SAFETY DATA SHEET

**Date of issue/Date of revision** : 24 April 2025 **Version** : 1

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

### 1.1 Product identifier

**Product name** : SIGMA ECOFLEET 530 BLACK

**Product code** : 000010024330

**Other means of identification**

00445157; 00445158

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

**Product use** : Professional applications, Used by spraying.

**Use of the substance/ mixture** : Antifouling products

**Uses advised against** : Product is not intended, labelled or packaged for consumer use.

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

PPG Coatings Belgium BV/SRL
Tweemontstraat 104
B-2100 Deurne
Belgium
Telephone +32-33606311
Fax +32-33606435

**e-mail address of person responsible for this SDS** : Product.Stewardship.EMEA@ppg.com

### 1.4 Emergency telephone number

**Supplier**

+31 20 4075210

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Flam. Liq. 3, H226
Acute Tox. 4, H302
Acute Tox. 4, H332
Skin Irrit. 2, H315
Eye Dam. 1, H318
Skin Sens. 1, H317
Repr. 2, H361d
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

## SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :

**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapour.
Harmful if swallowed or if inhaled.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Suspected of damaging the unborn child.
Very toxic to aquatic life with long lasting effects.

**Prevention** : Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.

**Response** : Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

P280, P210, P273, P391, P305 + P351 + P338, P501

**Hazardous ingredients** : dicopper oxide; rosin; 5-methylhexan-2-one; 4,5-dichloro-2-octyl-2H-isothiazol-3-one; 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene; Cashew, nutshell liq. and octhilinone (ISO)

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 2: Hazards identification

**Other hazards which do not result in classification** : Prolonged or repeated contact may dry skin and cause irritation.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers | % by weight | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|---|---|---|---|
| dicopper oxide | REACH #: 01-2119513794-36<br>EC: 215-270-7<br>CAS: 1317-39-1<br>Index: 029-002-00-X | ≥25 - ≤50 | Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | ATE [Oral] = 500 mg/kg<br>ATE [Inhalation (dusts and mists)] = 3.34 mg/l<br>M [Acute] = 100<br>M [Chronic] = 10 | [1] [2] |
| zinc oxide | REACH #: 01-2119463881-32<br>EC: 215-222-5<br>CAS: 1314-13-2<br>Index: 030-013-00-7 | ≥10 - ≤25 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | M [Acute] = 1<br>M [Chronic] = 1 | [1] |
| xylene | REACH #: 01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7 | ≥10 - ≤16 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | ATE [Dermal] = 1700 mg/kg<br>ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| rosin | REACH #: 01-2119480418-32<br>EC: 232-475-7<br>CAS: 8050-09-7<br>Index: 650-015-00-7 | ≥10 - ≤25 | Skin Sens. 1, H317 | - | [1] [2] |
| 5-methylhexan-2-one | REACH #: 01-2119472300-51<br>EC: 203-737-8<br>CAS: 110-12-3<br>Index: 606-026-00-4 | ≥5.0 - ≤10 | Flam. Liq. 3, H226<br>Acute Tox. 4, H332<br>Repr. 2, H361d (inhalation) | ATE [Inhalation (gases)] = 5000 ppm | [1] [2] |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one | EC: 264-843-8<br>CAS: 64359-81-5<br>Index: 613-335-00-8 | ≥1.0 - ≤3.4 | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Acute Tox. 2, H330<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>EUH071 | ATE [Oral] = 567 mg/kg<br>ATE [Dermal] = 1100 mg/kg<br>ATE [Inhalation (dusts and mists)] = 0.16 mg/l<br>Skin Corr. 1, H314: C ≥ 5%<br>Skin Irrit. 2, H315: 0.025% ≤ C < 5%<br>Eye Dam. 1, H318: C ≥ 3%<br>Eye Irrit. 2, H319: | [1] |

## SECTION 3: Composition/information on ingredients

| | | | | | |
|---|---|---|---|---|---|
| | | | | 0.025% ≤ C < 3%<br>Skin Sens. 1, H317: C ≥ 0.0015%<br>M [Acute] = 100<br>M [Chronic] = 100 | |
| ethylbenzene | REACH #: 01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4 | ≥1.0 - ≤5.0 | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | ATE [Inhalation (vapours)] = 17.8 mg/l | [1] [2] |
| copper(II) oxide | REACH #: 01-2119502447-44<br>EC: 215-269-1<br>CAS: 1317-38-0<br>Index: 029-016-00-6 | ≥1.0 - ≤5.0 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | M [Acute] = 100<br>M [Chronic] = 10 | [1] |
| copper | REACH #: 01-2119480154-42<br>EC: 231-159-6<br>CAS: 7440-50-8 | <1.0 | Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412 | M [Acute] = 1 | [1] |
| 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene | REACH #: 01-2119962189-26<br>CAS: 911674-82-3<br>Index: 616-198-00-2 | <1.0 | Skin Sens. 1, H317<br>Aquatic Chronic 4, H413 | - | [1] [2] |
| Cashew, nutshell liq. | EC: 232-355-4<br>CAS: 8007-24-7 | <1.0 | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317 | ATE [Oral] = 500 mg/kg<br>ATE [Dermal] = 1100 mg/kg | [1] |
| octhilinone (ISO) | EC: 247-761-7<br>CAS: 26530-20-1<br>Index: 613-112-00-5 | <0.0010 | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 2, H330<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>EUH071<br><br>**See Section 16 for the full text of the H statements declared above.** | ATE [Oral] = 125 mg/kg<br>ATE [Dermal] = 311 mg/kg<br>ATE [Inhalation (dusts and mists)] = 0.27 mg/l<br>Skin Sens. 1, H317: C ≥ 0.0015%<br>M [Acute] = 100<br>M [Chronic] = 100 | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

**SUB codes represent substances without registered CAS Numbers.**

## SECTION 3: Composition/information on ingredients

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

**Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

**Potential acute health effects**

**Eye contact** : Causes serious eye damage.

**Inhalation** : Harmful if inhaled.

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : Harmful if swallowed.

**Over-exposure signs/symptoms**

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

**Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations

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

## SECTION 4: First aid measures

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
sulfur oxides
halogenated compounds
metal oxide/oxides

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

## SECTION 6: Accidental release measures

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 8.1 Control parameters

### Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---|---|
| dicopper oxide | **ACGIH TLV (United States, 1/2024) [copper fume]**<br>TWA 8 hours: 0.2 mg/m³. Form: Fume. |
| xylene | **EU OEL (Europe, 1/2022) [xylene, mixed isomers]** Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 221 mg/m³.<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 442 mg/m³. |
| rosin | **ACGIH TLV (United States, 1/2024) [resin acids]** Skin sensitiser , Inhalation sensitiser.<br>TWA 8 hours: 0.001 mg/m³ (as total Resin acids). Form: Inhalable fraction. |
| 5-methylhexan-2-one | **EU OEL (Europe, 1/2022)**<br>TWA 8 hours: 20 ppm.<br>TWA 8 hours: 95 mg/m³. |
| ethylbenzene | **EU OEL (Europe, 1/2022)** Absorbed through skin.<br>TWA 8 hours: 100 ppm.<br>TWA 8 hours: 442 mg/m³.<br>STEL 15 minutes: 200 ppm.<br>STEL 15 minutes: 884 mg/m³. |
| 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene | **ACGIH TLV (United States)**<br>TWA: 3 mg/m³ (Respirable fraction).<br>TWA: 10 mg/m³ (Total dust). |

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

| Product/ingredient name | Exposure | | Value |
|---|---|---|---|
| dicopper oxide | DNEL - Workers - Long term - Inhalation | *Effects: Local* | 1 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Effects: Systemic* | 1 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Effects: Systemic* | 137 mg/kg bw/day |
| | DNEL - General population - Long term - Oral | *Effects: Systemic* | 0.041 mg/kg bw/day |
| | DNEL - General population - Short term - Oral | *Effects: Systemic* | 0.082 mg/kg bw/day |
| xylene | DNEL - General population - Long term - Oral | *Effects: Systemic* | 5 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Effects: Local* | 65.3 mg/m³ |
| | DNEL - General population - Long term - Inhalation | *Effects: Systemic* | 65.3 mg/m³ |
| | DNEL - General population - Long term - Dermal | *Effects: Systemic* | 125 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Effects: Systemic* | 212 mg/kg bw/day |

## SECTION 8: Exposure controls/personal protection

| | | | |
|---|---|---|---|
| | DNEL - Workers - Long term - Inhalation | *Effects: Local* | 221 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Effects: Systemic* | 221 mg/m³ |
| | DNEL - General population - Short term - Inhalation | *Effects: Local* | 260 mg/m³ |
| | DNEL - General population - Short term - Inhalation | *Effects: Systemic* | 260 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Effects: Local* | 442 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Effects: Systemic* | 442 mg/m³ |
| 5-methylhexan-2-one | DNEL - General population - Long term - Oral | *Effects: Systemic* | 5.12 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | *Effects: Systemic* | 5.12 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Effects: Systemic* | 14.2 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Effects: Systemic* | 17.8125 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Effects: Systemic* | 100.25 mg/m³ |
| | DNEL - General population - Short term - Inhalation | *Effects: Systemic* | 146.5 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Effects: Systemic* | 196.3 mg/m³ |
| ethylbenzene | DMEL - Workers - Long term - Inhalation | *Effects: Local* | 442 mg/m³ |
| | DMEL - Workers - Short term - Inhalation | *Effects: Systemic* | 884 mg/m³ |
| | DNEL - General population - Long term - Oral | *Effects: Systemic* | 1.6 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Effects: Systemic* | 15 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Effects: Systemic* | 77 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Effects: Systemic* | 180 mg/kg bw/day |
| | DNEL - Workers - Short term - Inhalation | *Effects: Local* | 293 mg/m³ |
| copper(II) oxide | DNEL - Workers - Long term - Inhalation | *Effects: Local* | 1 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Effects: Systemic* | 1 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Effects: Systemic* | 137 mg/kg bw/day |
| | DNEL - General population - Long term - Oral | *Effects: Systemic* | 0.041 mg/kg bw/day |
| | DNEL - General population - Short term - Oral | *Effects: Systemic* | 0.082 mg/kg bw/day |
| copper | DNEL - General population - Long term - Dermal | *Effects: Systemic* | 137 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Effects: Systemic* | 137 mg/kg bw/day |
| | DNEL - General population - Short term - Dermal | *Effects: Systemic* | 273 mg/kg bw/day |
| | DNEL - Workers - Short term - Dermal | *Effects: Systemic* | 273 mg/kg bw/day |
| Cashew, nutshell liq. | DNEL - General population - Long term - Oral | *Effects: Systemic* | 0.75 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | *Effects: Systemic* | 0.75 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Effects: Systemic* | 1.31 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Effects: Systemic* | 2.1 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | *Effects: Systemic* | 7.4 mg/m³ |

**PNECs**

| Product/ingredient name | Compartment Detail - Method | Value |
|---|---|---|
| dicopper oxide | Fresh water | 0.0078 mg/l |
| | Fresh water sediment | 87.1 mg/kg dwt |
| | Marine water | 0.0056 mg/l |
| | Marine water sediment | 676 mg/kg dwt |
| | Soil | 64.6 mg/kg dwt |
| | Sewage Treatment Plant | 0.23 mg/l |
| zinc oxide | Fresh water - Sensitivity Distribution | 20.6 µg/l |
| | Marine water - Sensitivity Distribution | 6.1 µg/l |
| | Fresh water sediment - Sensitivity Distribution | 117 mg/kg dwt |
| | Sewage Treatment Plant - Assessment Factors | 52 µg/l |
| | Marine water sediment - Assessment Factors | 56.5 mg/kg dwt |
| | Soil - Sensitivity Distribution | 35.6 mg/kg dwt |
| xylene | Fresh water | 0.327 mg/l |
| | Marine water | 0.327 mg/l |

## SECTION 8: Exposure controls/personal protection

| | | |
|---|---|---|
| | Sewage Treatment Plant | 6.58 mg/l |
| | Fresh water sediment | 12.46 mg/kg dwt |
| | Marine water sediment | 12.46 mg/kg dwt |
| | Soil | 2.31 mg/kg |
| rosin | Fresh water - Assessment Factors | 0.002 mg/l |
| | Marine water - Assessment Factors | 0 mg/l |
| | Sewage Treatment Plant - Assessment Factors | 1000 mg/l |
| | Fresh water sediment - Equilibrium Partitioning | 0.007 mg/kg dwt |
| | Marine water sediment - Equilibrium Partitioning | 0.001 mg/kg dwt |
| | Soil - Equilibrium Partitioning | 0 mg/kg dwt |
| 5-methylhexan-2-one | Fresh water - Assessment Factors | 0.1 mg/l |
| | Marine water - Assessment Factors | 0.01 mg/l |
| | Sewage Treatment Plant - Assessment Factors | 100 mg/l |
| | Fresh water sediment - Equilibrium Partitioning | 1.12 mg/kg dwt |
| | Marine water sediment - Equilibrium Partitioning | 0.112 mg/kg dwt |
| | Soil - Equilibrium Partitioning | 0.166 mg/kg dwt |
| ethylbenzene | Fresh water - Assessment Factors | 0.1 mg/l |
| | Marine water - Assessment Factors | 0.01 mg/l |
| | Sewage Treatment Plant - Assessment Factors | 9.6 mg/l |
| | Fresh water sediment - Equilibrium Partitioning | 13.7 mg/kg dwt |
| | Marine water sediment - Equilibrium Partitioning | 1.37 mg/kg dwt |
| | Soil - Equilibrium Partitioning | 2.68 mg/kg dwt |
| | Secondary Poisoning | 20 mg/kg |

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Chemical splash goggles and face shield. Use eye protection according to EN 166.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Gloves** : butyl rubber

## SECTION 8: Exposure controls/personal protection

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

**Other skin protection** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Colour** : Black.

**Odour** : Characteristic.

**Melting point/freezing point** : Not determined.

**Boiling point or initial boiling point and boiling range** : >37.78°C

**Flammability** : Not determined. There are no data available on the mixture itself.

**Lower and upper explosion limit** : Not available.

**Flash point** : Closed cup: 28°C

**Auto-ignition temperature** :

| Ingredient name | °C | °F | Method |
|---|---|---|---|
| 5-methylhexan-2-one | 400 | 752 | EU A.15 |

**Decomposition temperature** : Stable under recommended storage and handling conditions (see Section 7).

**pH** : Not applicable. insoluble in water.

**Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): >21 $mm^2/s$

**Solubility** :

| Media | Result |
|---|---|
| cold water | Not soluble |

## SECTION 9: Physical and chemical properties

**Partition coefficient n-octanol/water (log Pow)** : Not applicable.

**Vapour pressure** :

| Ingredient name | Vapour Pressure at 20˚C | | | Vapour pressure at 50˚C | | |
|---|---|---|---|---|---|---|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| ethylbenzene | 9.30076 | 1.2 | | | | |

**Relative density** : 1.78

**Particle characteristics**

**Median particle size** : Not applicable.

### 9.2 Other information

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

**Explosive properties** : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

**Oxidising properties** : Product does not present an oxidizing hazard.

No additional information.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

**10.6 Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

## SECTION 11: Toxicological information

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

The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.

Harmful if swallowed or if inhaled.
Causes serious eye damage.
Causes skin irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility. Suspected of damaging the unborn child.

**Acute toxicity**

## SECTION 11: Toxicological information

| Product/ingredient name | Result | Dose / Exposure |
|---|---|---|
| dicopper oxide | Rat - Oral - LD50<br>Rat - Dermal - LD50<br>Rat - Inhalation - LC50 Dusts and mists | 500 mg/kg<br>>2000 mg/kg<br>3.34 mg/l [4 hours] |
| zinc oxide | Rat - Oral - LD50<br>Rat - Dermal - LD50<br>Rat - Inhalation - LC50 Dusts and mists | >5000 mg/kg<br>>2000 mg/kg<br>>5700 mg/m³ [4 hours] |
| xylene | Rat - Oral - LD50<br>Rabbit - Dermal - LD50 | 4.3 g/kg<br>1.7 g/kg |
| rosin | Rat - Oral - LD50<br>Rat - Dermal - LD50 | 7600 mg/kg<br>>2000 mg/kg |
| 5-methylhexan-2-one | Rabbit - Dermal - LD50<br>Rat - Oral - LD50<br>*Toxic effects*: Behavioral - Tremor Behavioral - Ataxia<br>Rat - Inhalation - LC50 Gas. | 8.14 g/kg<br>5657 mg/kg<br><br>5000 ppm [4 hours] |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one | Rat - Oral - LD50<br>Rabbit - Dermal - LD50<br>Rat - Inhalation - LC50 Dusts and mists | 567 mg/kg<br>3.9 g/kg<br>0.16 mg/l [4 hours] |
| ethylbenzene | Rat - Oral - LD50<br>Rabbit - Dermal - LD50<br>Rat - Inhalation - LC50 Vapour | 3.5 g/kg<br>17.8 g/kg<br>17.8 mg/l [4 hours] |
| copper(II) oxide | Rat - Oral - LD50 | >2000 mg/kg |
| copper | Rat - Inhalation - LC50 Dusts and mists | >5.11 mg/l [4 hours] |
| 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene | Rat - Inhalation - LC50 Dusts and mists | >5.08 mg/l [4 hours] |
| octhilinone (ISO) | Rat - Oral - LD50<br>Rabbit - Dermal - LD50<br>Rat - Inhalation - LC50 Dusts and mists | 125 mg/kg<br>311 mg/kg<br>0.27 mg/l [4 hours] |

**Acute toxicity estimates**

| Route | ATE value |
|---|---|
| Oral | 1277.22 mg/kg |
| Dermal | 10857.18 mg/kg |
| Inhalation (gases) | 67621.66 ppm |
| Inhalation (vapours) | 83.68 mg/l |
| Inhalation (dusts and mists) | 3.79 mg/l |

**Conclusion/Summary** : Harmful if swallowed or if inhaled.

**Irritation/Corrosion**

| Product/ingredient name | Result |
|---|---|
| xylene | Rabbit - Skin - Moderate irritant<br>Amount/concentration applied: 500 mg<br>Duration of treatment/exposure: 24 hours |

**Conclusion/Summary**

**Skin** : Causes skin irritation.

**Eyes** : Causes serious eye damage.

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

**Respiratory or skin sensitization**

| Product/ingredient name | Test | Result |
|---|---|---|
| octhilinone (ISO) | Mouse - skin<br>OECD 429 | Result: Sensitising |

## SECTION 11: Toxicological information

**Conclusion/Summary**

**Skin** : May cause an allergic skin reaction.

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

**Mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

| Product/ingredient name | Test | Result |
|---|---|---|
| 5-methylhexan-2-one | Rabbit - Inhalation<br>OECD 414<br>1250 ppm | Developmental: Equivocal |

Suspected of damaging fertility. Suspected of damaging the unborn child.

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| xylene<br>4,5-dichloro-2-octyl-2H-isothiazol-3-one | Category 3<br>Category 3 | -<br>- | Respiratory tract irritation<br>Respiratory tract irritation |

**Conclusion/Summary** :

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

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| ethylbenzene | Category 2 | - | hearing organs |

**Conclusion/Summary** :

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

**Aspiration hazard**

| Product/ingredient name | Result |
|---|---|
| xylene<br>ethylbenzene | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

**Conclusion/Summary** :

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

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

**Inhalation** : Harmful if inhaled.

**Ingestion** : Harmful if swallowed.

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Eye contact** : Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

## SECTION 11: Toxicological information

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Short term exposure**

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

**Long term exposure**

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

**Potential chronic health effects**

**General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : Suspected of damaging the unborn child.

**Other information** : Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

### 12.1 Toxicity

| Product/ingredient name | Result | Species | Dose / Exposure |
|---|---|---|---|
| dicopper oxide | LC50 | Fish | 0.003 mg/l [96 hours] |
| zinc oxide | Acute - EC50 - Fresh water | Daphnia - Water flea - *Daphnia magna* - Neonate | 0.481 mg/l [48 hours] |
| | Acute - EC50 | Algae | 0.17 mg/l [72 hours] |
| | Chronic - NOEC - Fresh water | Algae | 0.017 mg/l [72 hours] |
| 5-methylhexan-2-one | Acute - LC50 | Fish | 159 mg/l [96 hours] |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one | Acute - EC50 - Marine water | Algae - Diatom - *Nitzschia pungens* | 267.368 µg/l [96 hours] |
| | Chronic - NOEC - Marine water | Algae - Diatom - *Nitzschia pungens* | 19.789 µg/l [96 hours] |
| | Acute - LC50 - Marine water | Crustaceans - Brine shrimp - *Artemia sp.* | 0.318 mg/l [48 hours] |
| | Acute - LC50 - Fresh water | Fish | 0.0027 mg/l [96 hours] |
| | Chronic - NOEC - Fresh water | Fish | 0.00056 mg/l [97 days] |
| ethylbenzene | Acute - EC50 - Fresh water | Daphnia | 1.8 mg/l [48 hours] |
| | Chronic - NOEC - Fresh water | Daphnia - *Ceriodaphnia dubia* | 1 mg/l |
| copper | Acute - LC50 | Fish | 810 ppb [96 hours] |
| | Chronic - EC10 | Daphnia - Water flea - *Daphnia magna* - Neonate | 8.1 µg/l [21 days] |
| 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene | Acute - LC50 | Fish | >100 mg/l [96 hours] |

**Conclusion/Summary** : Very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose / Inoculum |
|---|---|---|---|
| 5-methylhexan-2-one | OECD 301D | 67% [28 days] - Readily | |
| ethylbenzene | - | 79% [10 days] - Readily | |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| xylene | - | - | Readily |
| 5-methylhexan-2-one | - | - | Readily |
| ethylbenzene | - | - | Readily |

### 12.3 Bioaccumulative potential

## SECTION 12: Ecological information

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| xylene | 3.12 | 7.4 to 18.5 | Low |
| rosin | 1.9 to 7.7 | - | High |
| 5-methylhexan-2-one | 1.88 | - | Low |
| ethylbenzene | 3.6 | 79.43 | Low |
| Cashew, nutshell liq. | >4.78 | - | High |
| octhilinone (ISO) | 2.45 | - | Low |

### 12.4 Mobility in soil

**Soil/water partition coefficient**

| Product/ingredient name | logKoc | Koc |
|---|---|---|
| 5-methylhexan-2-one | 1.53 | 33.6565 |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one | 3.41 | 2562.01 |
| ethylbenzene | 2.23 | 170.406 |
| octhilinone (ISO) | 2.85 | 706.605 |

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

**Product**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** :

**European waste catalogue (EWC)**

| Waste code | Waste designation |
|---|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

## SECTION 13: Disposal considerations

| Type of packaging | European waste catalogue (EWC) |
|---|---|
| Container | 15 01 06 mixed packaging |

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number or ID number** | UN1263 | UN1263 | UN1263 | UN1263 |
| **14.2 UN proper shipping name** | PAINT | PAINT | PAINT | PAINT |
| **14.3 Transport hazard class(es)** | 3 | 3 | 3 | 3 |
| **14.4 Packing group** | III | III | III | III |
| **14.5 Environmental hazards** | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| **Marine pollutant substances** | Not applicable. | Not applicable. | (dicopper oxide) | Not applicable. |

**Additional information**

**ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**Tunnel code** : (D/E)

**ADN** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

| Product/ingredient name | Entry Number ( REACH ) |
|---|---|
| SIGMA ECOFLEET 530 BLACK | 3 |

**Labelling** : Not applicable.

**Explosive precursors** : Not applicable.

**Ozone depleting substances (EU 2024/590)**

Not listed.

**Seveso Directive**

This product is controlled under the Seveso Directive.

**Danger criteria**

| Category |
|---|
| P5c<br>E1 |

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

**Full text of abbreviated H statements**

## SECTION 16: Other information

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| 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. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |
| EUH071 | Corrosive to the respiratory tract. |

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Aquatic Chronic 4 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Corr. 1 | SKIN CORROSION/IRRITATION - Category 1 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

**History**

**Date of issue/ Date of revision** : 24 April 2025

**Date of previous issue** : No previous validation

**Prepared by** : EHS

**Version** : 1

**Disclaimer**

## SECTION 16: Other information

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*