SAFETY DATA SHEET

Date of issue/Date of revision

: 5 October 2021

Version : 22

use.

Kingdom (UK)

United

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

1.1 Product identifier

: SIGMASHIELD 460 BASE RAL 7035 **Product name** : 00204818 Product code

Other means of identification

Not available.

| 1.2 Relevant identified use | s of the substance or mixture and uses advised against |
|----------------------------------|--|
| Product use | : Professional applications, Used by spraying. |
| Use of the substance/ mixture | : Coating. |
| Uses advised against | : Product is not intended, labelled or packaged for consumer |

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
- : Product.Stewardship.EMEA@ppg.com

responsible for this SDS

National contact

PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

: Mixture **Product definition** Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Fam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318

Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 2, H411

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

English (GB)

United Kingdom (UK)

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| SIGMASHIE | LD 460 BASE RAL 7035 | | |

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 | Fammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. | |
| Precautionary statements | | |
| Prevention | : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid releat the environment. Do not breathe vapour. | ase to |
| Response | : Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Rem contact lenses, if present and easy to do. Continue rinsing. | nove |
| Storage | : Not applicable. | |
| Disposal | : Not applicable. | |
| | P280, P210, P273, P260, P391, P305 + P351 + P338 | |
| Hazardous ingredients | : epoxy resin (MW ≤ 700) Quartz (SiO2) 4-nonylphenol, branched 2-methylpropan-1-ol | |
| Supplemental label elements | ₩arning! Hazardous respirable droplets may be formed when sprayed. Do not breaspray or mist. Contains epoxy constituents. May produce an allergic reaction. | athe |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicable. | |
| Special packaging requirem | <u>ents</u> · Not applicable. | |
| Containers to be fitted with child-resistant fastenings | | |
| Tactile warning of danger | : Not applicable. | |
| 2.3 Other hazards | | |
| Product meets the criteria for PBT or vPvB | : This mixture does not contain any substances that are assessed to be a PBT or a | vPvB. |
| Other hazards which do not result in classification | : Causes digestive tract burns. Prolonged or repeated contact may dry skin and cau irritation. | use |
| English (GB) | United Kingdom (UK) 2/ | /18 |

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

| | | | Classification | | |
|--|---|--------------|---|---------|--|
| Product/ingredient name | Identifiers | % by weight | Regulation (EC) No. 1272/2008 [CLP] | Туре | |
| Ppoxy resin (MW ≤ 700) REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 | | ≥10 - ≤25 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | [1] | |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≥5.0 - ≤10 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 | [1] [2] | |
| Quartz (SiO2) | EC: 238-878-4 CAS: 14808-60-7 | ≥5.0 - <10 | STOT RE 1, H372 (inhalation) | [1] [2] | |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≥1.0 - ≤5.0 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | [1] [2] | |
| 4-nonylphenol, branched | REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8 | ≥0.30 - <2.5 | Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) | [1] [5] | |
| 2-methylpropan-1-ol | REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 | ≥0.30 - ≤2.7 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | [1] [2] | |
| 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7 | ≥1.0 - ≤5.0 | Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413 See Section 16 for the full text of the H statements declared above. | [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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

| Conforms to Regulation (EC) No | . 1907/2006 (REACH), Annex II, as amended by | y Regulation (EU) No. 2015/830 |
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SECTION 3: Composition/information on ingredients

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

SUB codes represent substances without registered CAS Numbers.

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 | : | No known significant effects or critical hazards. |
| Skin contact | : | Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : | Corrosive to the digestive tract. Causes burns. |
| Over-exposure signs/sympt | om | <u>s</u> |
| Eye contact | : | Adverse symptoms may include the following: pain watering redness |
| Inhalation | : | No specific data. |
| Skin contact | : | Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur |
| Ingestion | 1 | Adverse symptoms may include the following: stomach pains |

4.3 Indication of any immediate medical attention and special treatment needed

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|--|---|
| 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: Firefigh | ting 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 f | rom the substance or mixture |
| Hazards from the substance or mixture | : Fammable 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 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 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 Europear 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. flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. If on appropriate personal protective equipment. | |
|--------------------------------|---|--|
| For emergency responders | If specialised clothing is required to deal with the spillage, take note of any informat n Section 8 on suitable and unsuitable materials. See also the information in "For n emergency personnel". | |
| 6.2 Environmental precautions | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful the environment if released in large quantities. Collect spillage. | |

6.3 Methods and material for containment and cleaning up

| Conforms to Regulation | (EC) No. | 1907/2006 | (REACH), | Annex II, as | amended by | y Regulation | (EU) No. 2015/83 | 30 |
|-------------------------------|----------|-----------|----------|--------------|------------|--------------|------------------|----|
|-------------------------------|----------|-----------|----------|--------------|------------|--------------|------------------|----|

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| SECTION 6: A | ccidental release r | neasures | |
| Small spill | : Stop leak if w | ithout risk. Move containers from spill | l 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. 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.

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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 |
|-------------------------|---|
| x ylene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | STEL: 441 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 220 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Quartz (SiO2) | EH40/2005 WELs (United Kingdom (UK), 1/2020). |
| | TWA: 0.1 mg/m ³ 8 hours. Form: Respirable fraction |
| ethylbenzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | STEL: 552 mg/m ³ 15 minutes. |
| | STEL: 125 ppm 15 minutes. |
| | TWA: 441 mg/m ³ 8 hours. |
| | TWA: 100 ppm 8 hours. |
| 2-methylpropan-1-ol | EH40/2005 WELs (United Kingdom (UK), 1/2020). |
| | STEL: 231 mg/m ³ 15 minutes. |
| | STEL: 75 ppm 15 minutes. |
| | TWA: 154 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|-------------------------|------|-----------------------|-------------------------|--------------------------------------|----------|
| epoxy resin (MW ≤ 700) | DNEL | Long term Inhalation | 12.25 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 12.25 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 8.33 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 8.33 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 3.571 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Dermal | 3.571 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 0.75 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Oral | 0.75 mg/kg bw/day | General population [Consumers] | Systemic |
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SECTION 8: Exposure controls/personal protection

| | | • | • | | | |
|------------------------------|------|------------|------------|------------------------|--------------------|----------|
| xylene | DNEL | Short term | | 260 mg/m ³ | General population | Systemic |
| | DNEL | Short term | | 260 mg/m ³ | General population | Local |
| | DNEL | Long term | Dermal | 125 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term | Inhalation | 65.3 mg/m³ | General population | Systemic |
| | DNEL | Long term | Oral | 12.5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term | Inhalation | 221 mg/m³ | Workers | Systemic |
| | DNEL | Short term | Inhalation | 442 mg/m³ | Workers | Systemic |
| | DNEL | Long term | Inhalation | 221 mg/m³ | Workers | Local |
| | DNEL | Short term | Inhalation | 442 mg/m³ | Workers | Local |
| | DNEL | Long term | Dermal | 212 mg/kg bw/day | Workers | Systemic |
| ethylbenzene | DNEL | Long term | Oral | 1.6 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term | Inhalation | 15 mg/m ³ | General population | Systemic |
| | DNEL | Long term | Inhalation | 77 mg/m ³ | Workers | Systemic |
| | DNEL | Long term | Dermal | 180 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term | Inhalation | 293 mg/m ³ | Workers | Local |
| 4-nonylphenol, branched | DNEL | Long term | Oral | 0.08 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term | | 0.4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term | Inhalation | 0.4 mg/m ³ | General population | Systemic |
| | DNEL | Long term | | 0.5 mg/m ³ | Workers | Systemic |
| | DNEL | Short term | Inhalation | 0.8 mg/m ³ | General population | Systemic |
| | DNEL | Short term | Inhalation | 1 mg/m ³ | Workers | Systemic |
| | DNEL | Long term | Dermal | 3.8 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term | Dermal | 7.5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term | Dermal | 7.6 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term | Dermal | 15 mg/kg bw/day | Workers | Systemic |
| 2-methylpropan-1-ol | DNEL | Long term | Inhalation | 55 mg/m ³ | General population | Local |
| | DNEL | Long term | | 310 mg/m ³ | Workers | Local |
| 12-hydroxyoctadecanoic acid, | DNEL | Long term | Inhalation | 82.5 µg/m³ | General population | Local |
| reaction products with | | 5 | | | | |
| 1,3-benzenedimethanamine | | | | | | |
| and hexamethylenediamine | | | | | | |
| | DNEL | Long term | Inhalation | 332 µg/m³ | Workers | Local |
| | DNEL | Short term | | 25.7 mg/m ³ | General population | Local |
| | DNEL | Short term | Inhalation | 51.3 mg/m ³ | Workers | Local |
| | 1 | I | | 5 | | |

PNECs

| Product/ingredient name | Туре | Compartment Detail | Value | Method Detail |
|-------------------------|------|------------------------|-----------------|--------------------------|
| epoxy resin (MW ≤ 700) | - | Fresh water | 0.006 mg/l | Assessment Factors |
| | - | Marine water | 0.001 mg/l | Assessment Factors |
| | - | Sewage Treatment Plant | 10 mg/l | Assessment Factors |
| | - | Fresh water sediment | 0.996 mg/kg dwt | Equilibrium Partitioning |
| | - | Marine water sediment | 0.1 mg/kg dwt | Equilibrium Partitioning |
| xylene | - | Fresh water | 0.327 mg/l | - |
| | - | Marine water | 0.327 mg/l | - |
| | - | 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 | - |
| ethylbenzene | - | Fresh water | 0.1 mg/l | Assessment Factors |
| | - | Marine water | 0.01 mg/l | Assessment Factors |
| | - | | 9.6 mg/l | Assessment Factors |
| | - | Fresh water sediment | 13.7 mg/kg dwt | Equilibrium Partitioning |
| | - | Marine water sediment | 1.37 mg/kg dwt | Equilibrium Partitioning |
| | - | Soil | 2.68 mg/kg dwt | Equilibrium Partitioning |
| | - | Secondary Poisoning | 20 mg/kg | - |
| 2-methylpropan-1-ol | - | Fresh water | 0.4 mg/l | Assessment Factors |
| | - | Marine water | 0.04 mg/l | Assessment Factors |
| | - | Sewage Treatment Plant | 10 mg/l | Assessment Factors |
| English (GB) | | United Kingdom (UK) | | 8/18 |

| Conforms to Regulation (EC) | No. 190 | 7/2006 (F | REACH), Annex II, as a | mended by Regulation | on (EU) No. 2015/830 |
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| SECTION 8: Exposur | e con | trols/p | personal protect | ion | |
| | | | Fresh water sediment Marine water sedimer | 00 | Equilibrium Partitioning |
| | | - | Soil | 0.076 mg/kg dwt | Equilibrium Partitioning |
| 8.2 Exposure controls | | | | | |
| Appropriate engineering | • Lise | only with | h adequate ventilation | l lse process enclosu | es, local exhaust ventilation |
| controls | or c any vap | other engine recommour or du | ineering controls to keep ended or statutory limits | o worker exposure to b. The engineering co | airborne contaminants below introls also need to keep gas imits. Use explosion-proof |
| Individual protection measu | <u>ures</u> | | | | |
| Hygiene measures | eati App Cor con | ng, smok propriate ntaminate taminate | king and using the lavate | ory and at the end of t sed to remove potenti- not be allowed out of g. Ensure that eyewa | ally contaminated clothing. the workplace. Wash |
| Eye/face protection | : Che | emical sp | lash goggles and face s | hield. Use eye proteo | ction according to EN 166. |
| Skin protection | | | | | approved standard should be |
| | is n duri glov prot frec (bre Wh (bre The prov as i | ecessary ing use th ed that th ve manuf tection tir juently re eakthroug en only b eakthroug e user mu duct is th ncluded i | considering the parameter of the gloves are still repeated to breakthrough facturers. In the case of the gloves cannot peated contact may occup the greater than 480 where for the greater than 30 million to be added and the greater than 30 million to be added and the greater than 30 million to be added and the greater than 30 million to be added and the final close that the final close the fin | neters specified by th taining their protective for any glove material mixtures, consisting be accurately estimate our, a glove with a protect minutes according to hoice of type of glove takes into account the | EN 374) is recommended. |
| Gloves | • | yl rubber | | | |
| Body protection | beir han stat sho | ng perform Idling this ic protectud Id inclue | med and the risks involve product. When there is tive clothing. For the gro de anti-static overalls, bo | red and should be app s a risk of ignition fron eatest protection from pots and gloves. Refe | ected based on the task proved by a specialist before n static electricity, wear anti- static discharges, clothing er to European Standard EN ements and test methods. |
| Other skin protection | bas | ed on the | | and the risks involved | easures should be selected and should be approved by |
| Respiratory protection | haz wor app con We | ards of th kers are ropriate, polying w | ith an approved standar irator conforming to EN | working limits of the s ons above the exposu se a properly fitted, air d if a risk assessmen | elected respirator. If |
| Environmental exposure controls | they cas | y comply es, fume | with the requirements o | f environmental prote gineering modification | ould be checked to ensure ction legislation. In some s to the process equipment s. |
| | | | | | |

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SECTION 9: Physical and chemical properties

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

| Physical state | : | Liquid. | | | | | | | |
|--|-------|---|---|---|--|---|---------------------------------|-------------|--|
| Colour | : | White. | | | | | | | |
| Odour | : | Acohol-like. [Slight] | | | | | | | |
| Odour threshold | : | Not available. | | | | | | | |
| рН | : | insoluble in water. | | | | | | | |
| Melting point/freezing point | 1 | May start to solidify at the following temperature: <-7°C (<19.4°F) This is based on data for the following ingredient: 4-nonylphenol, branched. Weighted average: -85.19°C (-121.3°F) | | | | | | | |
| Initial boiling point and boiling range | : | >37.78°C | | | | | | | |
| Flash point | : | Ølosed cup: 31°C | | | | | | | |
| Evaporation rate | : | Highest known value: 0.84 (ethylbenzene) Weighted average: 0.76compared with butyl acetate | | | | | | | |
| Flammability (solid, gas) | : | liquid | | | | | | | |
| Upper/lower flammability or explosive limits | : | Greatest known rang | e: Lower: | 1.7% U | pper: 10.9% | (2-methy | Ipropan-1 | 1-ol) | |
| Vapour pressure | : | | Vapor | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
| | | Ingredient name | mm Hg | 1 | Method | mm | kPa | Method | |
| | | | | | | Hg | | | |
| | | ₽-methylpropan-1-ol | <12 | <1.6 | DIN EN 13016-2 | Hg | | | |
| Vapour density | : | <pre>✓methylpropan-1-ol ✓ighest known value 4.03 (Air = 1)</pre> | | | 13016-2 | | ed). Wei | ghted avera | |
| | : | r In the st known value → State → St | | | 13016-2 | | ed). Wei | ghted avera | |
| Relative density | : : : | ighest known value 4.03 (Air = 1) | : 7.59 (A | ir = 1) (4 | 13016-2 I-nonylphenol | | ed). Weig | ghted avera | |
| Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/ water | | ✔ighest known value 4.03 (Air = 1) ✔.67 Insoluble in the follow | : 7.59 (A | ir = 1) (4 | 13016-2 I-nonylphenol | | ed). Weig | ghted avera | |
| Relative density Solubility(ies) Partition coefficient: n-octanol/ vater | | ✔ighest known value 4.03 (Air = 1) ✔.67 Insoluble in the follow | : 7.59 (A | ir = 1) (4 | 13016-2 I-nonylphenol | , branch | ed). Weių | ghted avera | |
| Relative density Solubility(ies) Partition coefficient: n-octanol/ vater | | Highest known value 4.03 (Air = 1) 7.67 Insoluble in the follow Not applicable. | : 7.59 (A | ir = 1) (4 | 13016-2 I-nonylphenol d water. | , branch | | | |
| Relative density Solubility(ies) Partition coefficient: n-octanol/ vater Auto-ignition temperature | | Highest known value 4.03 (Air = 1) 1.67 Insoluble in the follow Not applicable. Ingredient name Inonylphenol, branched | : 7.59 (A ving mate | ir = 1) (4 rials: colo 0 0 372 | 13016-2 I-nonylphenol d water. °F 701.6 | , branch | Method STM E 659 | | |
| Relative density Solubility(ies) Partition coefficient: n-octanol/ vater Auto-ignition temperature Decomposition temperature | | Highest known value 4.03 (Air = 1) 1.67 Insoluble in the follow Not applicable. Ingredient name Fnonylphenol, branched Stable under recomm | i 7.59 (A ving mate | ir = 1) (4 rials: colo 0 0 372 | 13016-2 I-nonylphenol d water. °F 701.6 | , branch | Method STM E 659 | | |
| Relative density Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature Decomposition temperature /iscosity | | Highest known value 4.03 (Air = 1) 1.67 Insoluble in the follow Not applicable. Ingredient name Inonylphenol, branched Stable under recomm Kinematic (40°C): >2 | / : 7.59 (A ving mate | ir = 1) (4 rials: colo 372 torage ar | 13016-2 I-nonylphenol d water. °F 701.6 nd handling co | , brancho , brancho A ponditions | Method STM E 659 (see Sec | ction 7). | |
| Relative density Solubility(ies) Partition coefficient: n-octanol/ | | Highest known value 4.03 (Air = 1) 1.67 Insoluble in the follow Not applicable. Ingredient name Fnonylphenol, branched Stable under recomm | / : 7.59 (A ving mate nended si 1 mm²/s | ir = 1) (4 rials: colo 372 torage ar | 13016-2 I-nonylphenol d water. °F 701.6 nd handling co | , brancho , brancho A ponditions | Method STM E 659 (see Sec | ction 7). | |

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|--|---|
| SECTION 10: Stabilit | y 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 halogenated compounds metal oxide/oxides |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------|---------|-------------|----------|
| epoxy resin (MW ≤ 700) | LD50 Dermal | Rabbit | >2 g/kg | - |
| | LD50 Oral | Rat | >2 g/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| 4-nonylphenol, branched | LD50 Dermal | Rabbit | 2.14 g/kg | - |
| | LD50 Oral | Rat | 1300 mg/kg | - |
| 2-methylpropan-1-ol | LC50 Inhalation Vapour | Rat | 24.6 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2460 mg/kg | - |
| | LD50 Oral | Rat | 2830 mg/kg | - |
| 12-hydroxyoctadecanoic acid, reaction | LC50 Inhalation Dusts and | Rat | 3.56 mg/l | 4 hours |
| products with 1,3-benzenedimethanamine | mists | | | |
| and hexamethylenediamine | | | | |
| - | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |

Conclusion/Summary : There are no data available on the mixture itself.

Acute toxicity estimates

| Route | ATE value |
|------------------------------|----------------|
| Øral | 76547.14 mg/kg |
| Dermal | 17715.32 mg/kg |
| Inhalation (vapours) | 103.2 mg/l |
| Inhalation (dusts and mists) | 319 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| epoxy resin (MW ≤ 700) | Skin - Mild irritant | Rabbit | - | - | - |
| | Eyes - Mild irritant | Rabbit | - | - | - |
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| 4-nonylphenol, branched | Skin - Erythema/Eschar | Rabbit | 4 | - | - |

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

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| | | | |

SECTION 11: Toxicological information

Conclusion/Summary

- Skin : There are no data available on the mixture itself.
 - : There are no data available on the mixture itself.
 - : There are no data available on the mixture itself.

Respiratory Sensitisation

Eyes

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|---------|-------------|
| epoxy resin (MW ≤ 700) | skin | Mouse | Sensitising |

| Conclusion/Summary | |
|-----------------------------|--|
| Skin | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| Mutagenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Carcinogenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Reproductive toxicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Teratogenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Specific target organ toxic | sity (single exposure) |

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------------|--|-------------------|--|
| xylene 2-methylpropan-1-ol | Category 3 Category 3 Category 3 | - | Respiratory tract irritation Respiratory tract irritation Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--|--|-------------------------------|------------------------------|
| Fystalline silica, respirable powder (<10 microns) ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | Category 1 Category 2 Category 2 | inhalation - inhalation | - hearing organs lungs |

Aspiration hazard

| Produ | ict/ingredient name | Result | |
|--|---|--|-----------|
| xylene ethylbenzene | | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 | |
| Information on likely routes of exposure | : Not available. | • | |
| Potential acute health ef | fects | | |
| Inhalation | : No known significant effects or | critical hazards. | |
| Ingestion | : Corrosive to the digestive tract. Causes burns. | | |
| Skin contact | : Causes skin irritation. Defattir | g to the skin. May cause an allergic skin i | reaction. |
| Eye contact | : Causes serious eye damage. | | |
| Symptoms related to the | physical, chemical and toxicologic | al characteristics | |
| Inhalation | : No specific data. | | |
| English (GB) | United King | dom (UK) | 12/18 |

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|------------------------------|---|
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| SECTION 11: Toxico | logical information |
| Ingestion | : Adverse symptoms may include the following: stomach pains |
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur |
| Eye contact | : Adverse symptoms may include the following: pain watering redness |
| Delayed and immediate effe | ects as well as chronic effects from short and long-term exposure |
| <u>Short term exposure</u> | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health eff | <u>ects</u> |
| Not available. | |
| Conclusion/Summary | : Not available. |
| General | : May cause damage to organs through prolonged or repeated exposure. 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 | : No known significant effects or critical hazards. |
| Other information | : Not available. |

Causes digestive tract burns. 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.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---------------------------------------|---------------------------------|---|----------|
| <mark>e</mark> poxy resin (MW ≤ 700) | Acute LC50 1.8 mg/l | Daphnia | 48 hours |
| | Chronic NOEC 0.3 mg/l | Daphnia | 21 days |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/I Fresh water | Daphnia - Ceriodaphnia dubia | - |
| 4-nonylphenol, branched | Acute EC50 0.04 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 0.044 mg/l | Crustaceans - Moina | 48 hours |
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| SECTION 12: Ecological information | on | |

| 2-methylpropan-1-ol | Acute LC50 0.221 mg/l Acute EC50 1100 mg/l | macrocopa Fish Daphnia | 96 hours 48 hours |
|---|---|--|----------------------|
| 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | | Algae - Pseudokirchneriella subcapitata | 72 hours |
| nexametrylenediamine | | (microalgae) | |
| | Acute EC50 >100 mg/l | Daphnia - Daphnia magna (Water flea) | 48 hours |
| | Acute LC50 >100 mg/l | Fish - Oncorhynchus mykiss (rainbow trout) | 96 hours |
| | Chronic NOEC 100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Chronic NOEC ≥50 mg/l | Daphnia - Daphnia magna (Water flea) | 21 days |

Conclusion/Summary : There are no data available on the mixture itself.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|---|--|------|----------|
| ethylbenzene | OECD 301F - OECD 301D Ready Biodegradability - Closed Bottle Test | 5 % - 28 days 79 % - Readily - 10 days 9 % - Not readily - 29 days | - | - |

Conclusion/Summary : There are no data available on the mixture itself.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| epoxy resin (MW ≤ 700) | - | - | Not readily |
| xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential | |
|--|------------------------------------|--|---|--|
| Poxy resin (MW ≤ 700) xylene ethylbenzene 4-nonylphenol, branched 2-methylpropan-1-ol 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | 3 3.12 3.6 5.4 1 >6 | 31 7.4 to 18.5 79.43 251.19 - - | low low low low low high | |

12.4 Mobility in soil

| Soil/water partition coefficient (K _{oc}) | : Not available. |
|---|------------------|
| Mobility | : Not available. |

12.5 Results of PBT and vPvB assessment

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SECTION 12: Ecological information

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

12.6 Other adverse effects : No known significant effects or critical hazards.

: Yes.

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. | |
| Type of packaging | European waste catalogue (EWC) | |
| Container | 15 01 06 mixed packaging | |
| Special precautions | 15 01 06 mixed packaging 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. | |

14. Transport information

| | ADR/RID | ADN | IMDG | ΙΑΤΑ |
|------------------------------------|---------|-------------------|--------|---|
| 14.1 UN 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 | Ш | III | III |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| English (GE | 3) | United Kingdom (I | JK) | 15/18 |

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|--|---|---|---|---|
| 14. Transp | oort information | | | |
| Marine pollutan substances | t Not applicable. | Not applicable. | (Epoxy resin (MW ≤ 700), 4-nonylphenol, branched) | Not applicable. |
| Additional inform ADR/RID Tunnel code ADN IMDG IATA | The environmentally has ≤5 kg. (D/E) The environmentally has ≤5 kg. The marine pollutant marine pollutant | azardous substance mark nark is not required when ti | is not required when transpo is not required when transpo ransported in sizes of ≤5 L or may appear if required by oth | rted in sizes of ≤5 L or [.] ≤5 kg. |
| 14.6 Special pre user | upright ar | • | : always transport in closed on some set of the set of | |
| 14.7 Transport i according to IM instruments | | cable. | | |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

| Intrinsic property | Ingredient name | Status | Reference number | Date of revision |
|---|--|-----------|---------------------|------------------|
| Substance of equivalent concern for environment | 4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | Candidate | ED/169/2012 | 12/19/2012 |

Annex XVII - Restrictions : Not applicable. on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

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|-----------|----------------------|--------------------------------|------------------|
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SECTION 15: Regulatory information

Category ₱5c

| 2 |
|---|
| 2 |

| Product/ingredient name | List name | Name on list | Classification | Notes |
|-------------------------|------------------------|--|----------------|-------|
| Quartz (SiO2) | Exposure Limits EH40 - | silica, respirable crystalline respirable fraction | Carc. | - |

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|-------------------------|-----------------------|
| Fam. Liq. 3, H226 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| STOT RE 2, H373 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

Full text of abbreviated H statements

| F 225 | Highly flammable liquid and vapour. |
|--------------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| 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. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated |
| English (GB) | United Kingdom (UK) 17/18 |

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|--|---|
| SECTION 16: Other information | on |
| H400 H410 H411 H412 H413 | exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life. |
| Full text of classifications [CLP/GHS] | |
| Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1 STOT RE 1 | ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE Category 1 |
| STOT RE 2 STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

<u>History</u>

| : 5 October 2021 |
|------------------|
| : 25 June 2021 |
| : EHS |
| : 22 |
| |

Disclaimer

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.