SAFETY DATA SHEET

Date of issue/Date of revision

: 13 December 2024 Version



: 3

Europe

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

| 1.1 Product identifier | | |
|------------------------|-------------------------------|--|
| Product name | : SIGMAFAST 278 BASE REDBROWN | |
| Product code | : 000001183358 | |
| Other means of identi | fication | |
| 00437800 | | |
| | | |

| 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 | : Coating. | |
| 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] Fam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360F Aquatic Chronic 2, H411

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

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.

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SECTION 2: Hazards identification

| 2.2 Label elements Hazard pictograms | |
|---|---|
| Signal word | : Danger |
| Hazard statements | Fammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility. Toxic to aquatic life with long lasting effects. |
| Precautionary statements | |
| 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 | : 🗭 ollect spillage. IF exposed or concerned: Get medical advice or attention. |
| Storage | : Not applicable. |
| Disposal | Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P308 + P313, P501 |
| Supplemental label elements | : Contains epoxy constituents. May produce an allergic reaction. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Restricted to professional users. |
| Special packaging requirem | ents |
| 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 | : 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 | : Prolonged or repeated contact may dry skin and cause irritation. |

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SECTION 3: Composition/information on ingredients

| 3.2 Mixtures : Mixture | | | | | | |
|--|--|----------------|--|---|---------|--|
| Product/ingredient name | Identifiers | % by weight | Classification | Specific Conc. Limits, M-factors and ATEs | Туре | |
| øs-[4-(2,3-epoxipropoxi) phenyl]propane | REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2 | ≥10 - ≤25 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5% | [1] | |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 | ≥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 Aquatic Chronic 3, H412 | ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] | |
| benzyl alcohol | REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5 | ≥1.0 - ≤5.0 | Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 | ATE [Oral] = 1200 mg/ kg | [1] [2] | |
| Phenol, styrenated | EC: 262-975-0 CAS: 61788-44-1 | ≥1.0 - ≤5.0 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 | - | [1] | |
| 1-methoxy-2-propanol | REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 | ≥1.0 - ≤5.0 | Flam. Liq. 3, H226 STOT SE 3, H336 | - | [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 | ATE [Inhalation (vapours)] = 17.8 mg/l | [1] [2] | |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4 | ≥1.0 - ≤5.0 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 1B, H360F | - | [1] | |
| trizinc bis(orthophosphate) | REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6 | ≤1.0 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] | |
| Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy- | CAS: 55349-01-4 | <1.0 | Skin Sens. 1, H317 Aquatic Chronic 4, H413 | - | [1] | |
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SECTION 3: Composition/information on ingredients

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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.

<u>Type</u>

[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 4: First aid measures

4.1 Description of first aid measures

| Eye contact | Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. |
|----------------------------|---|
| 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 recognized skin cleanser. Do NOT use solvents or thinners. |
| Ingestion | If swallowed, seek medical advice immediately and show this 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 irritation. | |
| Inhalation | : | No known significant effects or critical hazards. | |
| Skin contact | : | Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. | |
| Ingestion | : | No known significant effects or critical hazards. | |
| Over-exposure signs/sympto | om | <u>15</u> | |
| Eye contact | : | Adverse symptoms may include the following: pain or irritation watering redness | |
| Inhalation | : | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations | |
| | | | |

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| SECTION 4: First aid | |
| Skin contact | : Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| 4.3 Indication of any immedia | ate medical attention and special treatment needed |
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment. |
| SECTION 5: Firefight | 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 | : Flammable liquid and vapor. 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 risl 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 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 |

ipment for fire-fighters isolate protective equipment and self-contained breating 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.

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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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|--------------------------------|------|--|
| For emergency responders | : | If specialized 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 spilled 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. |
| 6.3 Methods and materials fo | or c | ontainment 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 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 spilled product. |
| 6.4 Reference to other | | See Section 1 for emergency contact 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).

See Section 13 for additional waste treatment information.

7.1 Precautions for safe handling

sections

| 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 ingest. Avoid breathing vapor or mist. 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. |
|---------------------|--|
|---------------------|--|

See Section 8 for information on appropriate personal protective equipment.

| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regula | tion (EU) |
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| SECTION 7: Handli | ng and storage |
| 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. |

Section 10 for incompatible materials before handling or use.

Eliminate all ignition sources. Separate from oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See

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 na | me Exposure limit values |
|--------------------------------------|--|
| xýlene | EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m ³ . |
| benzyl alcohol | IPEL (-) TWA: 5 ppm. STEL: 10 ppm. |
| 1-methoxy-2-propanol | EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m ³ . |
| ethylbenzene | EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m ³ . |
| procedures S by st ap bi | eference should be made to monitoring standards, such as the following: European tandard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure y inhalation to chemical agents for comparison with limit values and measurement rategy) European Standard EN 14042 (Workplace atmospheres - Guide for the oplication and use of procedures for the assessment of exposure to chemical and ological agents) European Standard EN 482 (Workplace atmospheres - General equirements for the performance of procedures for the measurement of chemical |
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SECTION 8: Exposure controls/personal protection

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 |
|---|-------|-----------------------|-------------------------|--------------------|----------|
| ofs-[4-(2,3-epoxipropoxi) phenyl]propane | DNEL | Long term Inhalation | 12.25 mg/m ³ | Workers | Systemic |
| phonyiphopano | 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 | Systemic |
| | DINLL | Long term Dermai | 5.57 Ting/kg bw/day | population | Systemic |
| | | | | | |
| | DNEL | Short term Dermal | 2 EZ1 mg/kg bw/dov | [Consumers] | Sustamia |
| | DINEL | Short term Dermai | 3.571 mg/kg bw/day | General | Systemic |
| | | | | population | |
| | DNIEL | | 0.75 | [Consumers] | 0 |
| | DNEL | Long term Oral | 0.75 mg/kg bw/day | General | Systemic |
| | | | | population | |
| | | | | [Consumers] | |
| | DNEL | Short term Oral | 0.75 mg/kg bw/day | General | Systemic |
| | | | | population | |
| | | | | [Consumers] | |
| | DNEL | Long term Dermal | 89.3 µg/kg bw/day | General population | |
| | DNEL | Long term Oral | 0.5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.75 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.87 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 4.93 mg/m ³ | Workers | Systemic |
| kylene | DNEL | Long term Oral | 5 mg/kg bw/day | General population | Systemic |
| - | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 125 mg/kg bw/day | General population | |
| | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Systemic |
| penzyl alcohol | DNEL | Long term Oral | 4 mg/kg bw/day | General population | |
| | DNEL | Long term Dermal | 4 mg/kg bw/day | General population | |
| | DNEL | Long term Inhalation | 5.4 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 8 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Oral | 20 mg/kg bw/day | General population | |
| | DNEL | Short term Dermal | 20 mg/kg bw/day | General population | |
| | DNEL | Long term Inhalation | 22 mg/m^3 | Workers | Systemic |
| | DNEL | Short term Inhalation | 27 mg/m ³ | General population | Systemic |
| | DNEL | Short term Dermal | 40 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 110 mg/m ³ | Workers | |
| Phonel aturanated | DNEL | | | | Systemic |
| Phenol, styrenated | DNEL | Long term Oral | 0.75 mg/kg bw/day | General population | |
| | | Long term Dermal | 0.75 mg/kg bw/day | General population | |
| | DNEL | Long term Inhalation | 1.31 mg/m ³ | General population | |
| | DNEL | Long term Dermal | 2.1 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 7.4 mg/m ³ | Workers | Systemic |
| I-methoxy-2-propanol | DNEL | Long term Oral | 33 mg/kg bw/day | General population | |
| | DNEL | Long term Inhalation | 43.9 mg/m ³ | General population | |
| | DNEL | Long term Dermal | 78 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 183 mg/kg bw/day | Workers | Systemic |
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SECTION 8: Exposure controls/personal protection

| | DNEL | Long term Inhalation | 369 mg/m ³ | Workers | Systemic |
|--------------------------|------|-----------------------|-------------------------|--------------------|----------|
| | DNEL | Short term Inhalation | 553.5 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 553.5 mg/m³ | Workers | Systemic |
| ethylbenzene | DMEL | Long term Inhalation | 442 mg/m ³ | Workers | Local |
| | DMEL | Short term Inhalation | 884 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Oral | 1.6 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 15 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 77 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 293 mg/m³ | Workers | Local |
| oxirane, mono[| DNEL | Long term Oral | 0.5 mg/kg bw/day | General population | Systemic |
| (C12-14-alkyloxy)methyl] | | | | | |
| derivs. | | | | | |
| | DNEL | Long term Dermal | 0.5 mg/kg bw/day | General population | |
| | DNEL | Long term Inhalation | 0.87 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 1 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 3.6 mg/m³ | Workers | Systemic |

PNECs

| Product/ingredient name | Туре | Compartment Detail | Value | Method Detail |
|----------------------------------|------|------------------------|-----------------|--------------------------|
| bis-[4-(2,3-epoxipropoxi)phenyl] | - | Fresh water | 0.006 mg/l | Assessment Factors |
| propane | | | | |
| | - | Marine water | 0.001 mg/l | Assessment Factors |
| | - | Fresh water sediment | 0.996 mg/kg dwt | Equilibrium Partitioning |
| | - | Marine water sediment | 0.1 mg/kg dwt | Equilibrium Partitioning |
| | - | Soil | 0.196 mg/kg dwt | Equilibrium Partitioning |
| | - | Sewage Treatment Plant | 10 mg/l | Assessment Factors |
| | - | Secondary Poisoning | 11 mg/kg | Assessment Factors |
| xylene | - | Fresh water | 0.327 mg/l | - |
| | - | Marine water | 0.327 mg/l | - |
| | - | | 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 | - |
| 1-methoxy-2-propanol | - | Fresh water | 10 mg/l | Assessment Factors |
| | - | Marine water | 1 mg/l | Assessment Factors |
| | - | Sewage Treatment Plant | 100 mg/l | Assessment Factors |
| | - | Fresh water sediment | 41.6 mg/kg | Equilibrium Partitioning |
| | - | Marine water sediment | 4.17 mg/kg | Equilibrium Partitioning |
| | - | Soil | 2.47 mg/kg | Equilibrium Partitioning |
| ethylbenzene | - | Fresh water | 0.1 mg/l | Assessment Factors |
| | - | Marine water | 0.01 mg/l | Assessment Factors |
| | - | Sewage Treatment Plant | 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 | - |
| trizinc bis(orthophosphate) | - | Fresh water | 20.6 µg/l | Sensitivity Distribution |
| · · · · | - | Marine water | 6.1 µg/l | Sensitivity Distribution |
| | - | Sewage Treatment Plant | 100 µg/l | Assessment Factors |
| | - | Fresh water sediment | 117.8 mg/kg dwt | Sensitivity Distribution |
| | - | Marine water sediment | 56.5 mg/kg dwt | Equilibrium Partitioning |
| | - | Soil | 35.6 mg/kg dwt | Sensitivity Distribution |

8.2 Exposure controls

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| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) | |
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| ECTION 8: Exposur | controls/personal protection |
| 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 be any recommended or statutory limits. The engineering controls also need to keep or vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. |
| Individual protection measu | <u>es</u> |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, befor 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. Use eye protection according to EN 166. |
| Skin protection | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should worn at all times when handling chemical products if a risk assessment indicates the is necessary. Considering the parameters specified by the glove manufacturer, che 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 differ 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 u as included in the user's risk assessment. |
| Gloves | : butyl rubber |
| 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 befor handling this product. When there is a risk of ignition from static electricity, wear ar static protective clothing. For the greatest protection from static discharges, clothin should include anti-static overalls, boots and gloves. Refer to European Standard E 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 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 respir complying with an approved standard if a risk assessment indicates this is necessa Wear a respirator conforming to EN140. Filter type: organic vapor (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 equipmen will be necessary to reduce emissions to acceptable levels. |

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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.

| | | nd chemical propert | ies | | | | | |
|--|----------|--|------------|---------|----------------|------------|-------------|-------------|
| <u>Appearance</u> | | | | | | | | |
| Physical state | 1 | Liquid. | | | | | | |
| Color | 1 | : Brownish-red. | | | | | | |
| Odor | 1 | : Aromatic. [Slight] | | | | | | |
| Melting point/freezing point | | Not determined. | | | | | | |
| Boiling point or initial boiling point and boiling range | 1 | >37.78°C | | | | | | |
| Flammability Lower and upper explosion limit | | Not determined. The Not available. | re are no | data av | ailable on the | e mixture | itself. | |
| Flash point Auto-ignition temperature | : | Closed cup: 38°C | | | | | | |
| | | Ingredient name | | °C | °F | | Method | |
| | | 1-methoxy-2-propanol | | 270 | 518 | | | |
| Decomposition temperature | : | Stable under recomr | nended st | orage a | nd handling | condition | s (see Sec | tion 7). |
| рН | | Not applicable. insolu | | - | 0 | | Υ. | , |
| Viscosity | : | Øynamic (room temp Kinematic (room temp Kinematic (40°C): ≥2 | nperature) | | | | | |
| Viscosity | : | > 100 s (ISO 6mm) | | | | | | |
| Solubility | : | . , | | | | | | |
| Media | | Result | | | | | | |
| cold water | | Not soluble | | | | | | |
| Partition coefficient n-octanol/ water (log Pow) | : | Not applicable. | | | | | | |
| Vapor pressure | : | | Vapo | r Press | ure at 20°C | Va | por press | ure at 50°C |
| | | Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | | ethylbenzene | 9.30076 | 1.2 | | | | |
| | | | | | | | | |
| Relative density | : | 1.71 | | | | | | |
| | : | 1.71 | | | | | | |
| Particle characteristics | | 1.71 Not applicable. | | | - | | | 1 |
| Particle characteristics Median particle size | | | | | | | | |
| Particle characteristics Median particle size .2 Other information | : | Not applicable. | es | | 1 | | | |
| Relative density <u>Particle characteristics</u> Median particle size 9.2 Other information 9.2.1 Information with regard to Explosive properties | : ppp | Not applicable. | not explos | | the formatio | n of an e: | kplosible m | ixture of |

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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: oxidizing agents, strong alkalis, strong acids. |
| 10.6 Hazardous decomposition products | : | Depending on conditions, decomposition products may include the following materials: carbon 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.

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May damage fertility.

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---------------------------------|---------|-------------|----------|
| s-[4-(2,3-epoxipropoxi)phenyl]propane | LD50 Dermal | Rabbit | 23000 mg/kg | - |
| | LD50 Oral | Rat | 15000 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| benzyl alcohol | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | 1200 mg/kg | - |
| Phenol, styrenated | LD50 Dermal | Rabbit | >5010 mg/kg | - |
| | LD50 Oral | Rat | 3550 mg/kg | - |
| 1-methoxy-2-propanol | LC50 Inhalation Vapor | Rat | >7000 ppm | 6 hours |
| | LD50 Dermal | Rabbit | 13 g/kg | - |
| | LD50 Oral | Rat | 5.2 g/kg | - |
| ethylbenzene | LC50 Inhalation Vapor | Rat | 17.8 mg/l | 4 hours |
| - | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | LD50 Dermal | Rabbit | >4000 mg/kg | - |
| | LD50 Oral | Rat | 17100 mg/kg | - |
| trizinc bis(orthophosphate) | LC50 Inhalation Dusts and mists | Rat | >5.7 mg/l | 4 hours |
| | LD50 Oral | Rat | >5000 mg/kg | - |

Acute toxicity estimates

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| | | | |

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SECTION 11: Toxicological information

| Route | ATE value | |
|---------------------|----------------|--|
| Øral | 48241.21 mg/kg | |
| Dermal | 29771.62 mg/kg | |
| Inhalation (vapors) | 173.44 mg/l | |

Conclusion/Summary

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

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---------------------------------------|--|----------------------------|-----------------|-------------------------------|-------------|
| s-[4-(2,3-epoxipropoxi)phenyl]propane | Eyes - Mild irritant Eyes - Redness of the conjunctivae | Rabbit Rabbit | - 0.4 | 24 hours 24 hours | - |
| | Skin - Edema Skin - Erythema/Eschar Skin - Mild irritant | Rabbit Rabbit Rabbit | 0.5 0.8 - | 4 hours 4 hours 4 hours | - - |
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |

Conclusion/Summary

: Causes skin irritation.

- Skin Eyes

: Zauses serious eye irritation.

- : Based on available data, the classification criteria are not met.
- Respiratory **Respiratory or skin sensitization**

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|----------------|----------------------------|
| | | Mouse Mouse | Sensitizing Sensitizing |

Conclusion/Summary

Skin

- : May cause an allergic skin reaction.
- : Based on available data, the classification criteria are not met.

Respiratory **Mutagenicity**

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

Carcinogenicity

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

Reproductive toxicity

May damage fertility.

Specific target organ toxicity (single exposure)

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

Conclusion/Summary

2 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

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

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SECTION 11: Toxicological information

| Aspiration hazard |
|-------------------|
|-------------------|

| Product | /ingredient name | Result |
|--|--|---|
| xylene ethylbenzene | | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |
| Conclusion/Summary | : | |
| Based on available data, the | e classification criteria are not met. | |
| Information on the likely routes of exposure | : Not available. | |
| Potential acute health effe | <u>cts</u> | |
| Inhalation | : No known significant effects or | critical hazards. |
| Ingestion | : No known significant effects or | critical hazards. |
| Skin contact | : Causes skin irritation. Defatting | g to the skin. May cause an allergic skin reaction. |
| Eye contact | : Causes serious eye irritation. | |
| Symptoms related to the p | hysical, chemical and toxicologica | al characteristics |
| Inhalation | : Koverse symptoms may include reduced fetal weight increase in fetal deaths skeletal malformations | e the following: |
| Ingestion | : Adverse symptoms may include reduced fetal weight increase in fetal deaths skeletal malformations | e the following: |
| Skin contact | : Adverse symptoms may include irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations | e the following: |
| Eye contact | : Adverse symptoms may include pain or irritation watering redness | e the following: |
| Delayed and immediate eff | fects and also chronic effects from | <u>n short and long term exposure</u> |
| Short term exposure | | |
| Potential immediate effects | : No known significant effects or | critical hazards. |
| Potential delayed effects | s : No known significant effects or | critical hazards. |
| Long term exposure | | |
| Potential immediate effects | : No known significant effects or | critical hazards. |
| | s : No known significant effects or | critical hazards. |
| Potential chronic health ef | | |
| General | | can defat the skin and lead to irritation, cracking and/or severe allergic reaction may occur when subsequently |
| Carcinogenicity | : No known significant effects or | critical hazards. |
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SECTION 11: Toxicological information

| Mutagenicity Reproductive toxicity | No known significant effects or critical hazards. May damage fertility. | | | |
|---------------------------------------|--|--|--|--|
| 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 vapor/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. | | | |
| 44.0 Information and the beneated | | | | |

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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

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 | Exposure |
|--|---------------------------|--------------------------|----------|
| pis-[4-(2,3-epoxipropoxi)phenyl]propane | Acute LC50 1.8 mg/l Fresh | Daphnia - <i>daphnia</i> | 48 hours |
| | water | magna | |
| | Chronic NOEC 0.3 mg/l | Daphnia | 21 days |
| Phenol, styrenated | Acute EC50 3.8 mg/l | Daphnia | 48 hours |
| 1-methoxy-2-propanol | Acute LC50 23300 mg/l | Daphnia | 48 hours |
| | Acute LC50 >4500 mg/l | Fish | 96 hours |
| | Fresh water | | |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh | Daphnia | 48 hours |
| | water | | |
| | Chronic NOEC 1 mg/l Fresh | Daphnia - | - |
| | water | Ceriodaphnia dubia | |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | EC50 844 mg/l | Algae | 72 hours |
| | EC50 7.2 mg/l | Daphnia | 48 hours |
| | LC50 >1.8 mg/l | Fish | 96 hours |
| trizinc bis(orthophosphate) | Acute LC50 0.112 mg/l | Fish | 96 hours |
| | Chronic NOEC 0.026 mg/l | Fish | 30 days |

Conclusion/Summary

: **P**oxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|--|---|------|----------|
| Phenol, styrenated ethylbenzene oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | OECD 301F - OECD 301F Ready Biodegradability - Manometric Respirometry Test | 7 % - Not readily - 28 days 79 % - Readily - 10 days 87 % - Readily - 28 days | | - |

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SECTION 12: Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------------|
| s-[4-(2,3-epoxipropoxi)phenyl]propane | - | - | Not readily Readily |
| benzyl alcohol Phenol, styrenated | - | - | Readily Not readily |
| ethylbenzene oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|--------|-------------|-----------|
| xylene | 3.12 | 7.4 to 18.5 | Low |
| benzyl alcohol | 0.87 | - | Low |
| 1-methoxy-2-propanol | <1 | - | Low |
| ethylbenzene | 3.6 | 79.43 | Low |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 3.77 | 160 to 263 | Low |

12.4 Mobility in soil

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc) | |
| Mobility | : Not available. |

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

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

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 minimized 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 nonrecyclable 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 |
| | |

English (US)

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SECTION 13: Disposal considerations

- Packaging
- Methods of disposal
- : The generation of waste should be avoided or minimized 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 | ainer 15 01 06 mixed packaging | | | |
| Special precautions | taken when I Empty conta residues may Do not cut, w | I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapor from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilled material and runoff and contact with soil, waterways | | |

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 |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | Not applicable. | (bis-[4- (2,3-epoxipropoxi) phenyl]propane) | Not applicable. |

Additional information

| ADR/RID | : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2. |
|--------------------------|---|
| Tunnel code | : (D/E) |
| ADN | : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2. |
| IMDG | : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5. |
| ΙΑΤΑ | : The environmentally hazardous substance mark may appear if required by other transportation regulations. |
| 14.6 Special pre user | cautions for : 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. |

| English (US) | Europe | 17/19 |
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SECTION 14: Transport information

14.7 Maritime transport in : Not applicable. **bulk according to IMO instruments**

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 authorization

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) |
|--|------------------------|
| SIGMAFAST 278 BASE REDBROWN | 3 |
| | 30 |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 30 |

Labeling

Restricted to professional users.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

| Danger criteria | |
|-----------------|--|
| Category | |
| P5c E2 | |
| E2 | |

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

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

| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU |) |
|--|---|
| 2020/878 | |

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| | | | |

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SECTION 16: Other information

| Full text of abbreviated H statements |
|---------------------------------------|
|---------------------------------------|

| ₩ 225 | Highly flammable liquid and vapor. |
|--------------|--|
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H360F | May damage fertility. |
| 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. |
| H411 | 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. |

Full text of classifications [CLP/GHS]

| OSURE) - |
|----------|
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| IRE) - |
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<u>History</u>

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