SAFETY DATA SHEET

United Kingdom (UK)

Date of issue/Date of revision

: 13 June 2022

Version : 16

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

1.1 Product identifier

| Product name : SELEMIX 9-011 FAST EPOXY HARDEN | IER |
|--|-----|
| Product code : 1.959.4011/E1 | |
| Other means of identification | |
| Not available. | |

| 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 | : Hardener. |
| 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 Industries Italia S.r.l., Via Comasina, 121, 20161 Milano, Italy Tel: +39 02 6404.1 PPG Industries (UK) Ltd., Needham Road, Stowmarket, Suffolk, IP14 2AD, UK Tel: +44 (0) 1449 773 338

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

1.4 Emergency telephone number

Company emergency telephone number : +39 02 6404.1 (0800-1700)

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] Mam. Liq. 3, H226 Acute Tox. 4, H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H336 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.

2.2 Label elements

| Code : 1.959.4011/E1 SELEMIX 9-011 FAST EPOXY | Date of issue/Date of revision : 13 June 2022 HARDENER |
|---|--|
| SECTION 2: Hazards | identification |
| Hazard pictograms | |
| Signal word | : Danger |
| Hazard statements | Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. |
| 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. |
| Response | : IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. |
| Storage | : Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P304 + P310, P301 + P310, P403 + P233, P501 |
| Hazardous ingredients | Fatty acids, C18-unsatd., dimers, polymers with bisphenol A, diethylenetriamine, epichlorohydrin, tall-oil fatty acids and triethylenetetramine 1-methoxy-2-propanol xylene 4-methylpentan-2-one 2,4,6-tris(dimethylaminomethyl)phenol 3-aminopropyldimethylamine |
| Supplemental label elements | : Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicable. |
| Special packaging requirem | <u>ents</u> |
| Containers to be fitted with child-resistant fastenings | : Not applicable. |
| Tactile warning of danger | : Not applicable. |
| .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 vPvE |
| 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 |
| Atty acids, C18-unsatd., dimers, polymers with bisphenol A, diethylenetriamine, epichlorohydrin, tall-oil fatty acids and triethylenetetramine | CAS: 139682-51-2 | ≥25 - ≤50 | Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 | ATE [Inhalation (vapours)] = 11 mg/l | [1] |
| 1-methoxy-2-propanol | REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 | ≥10 - ≤25 | Flam. Liq. 3, H226 STOT SE 3, H336 | - | [1] [2] |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≥10 - ≤17 | 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 | ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| 4-methylpentan-2-one | REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4 | ≥10 - ≤21 | Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066 | ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| 2,4,6-tris (dimethylaminomethyl) phenol | REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0 | ≥5.0 - ≤10 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 | ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg | [1] |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≥1.0 - ≤4.5 | 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] |
| butan-1-ol | REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6 | ≥0.30 - ≤2.8 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | ATE [Oral] = 790 mg/ kg | [1] [2] |
| 3-aminopropyldimethylamine | REACH #: 01-2119486842-27 EC: 203-680-9 CAS: 109-55-7 | ≥1.0 - <5.0 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 | ATE [Oral] = 410 mg/ kg ATE [Dermal] = 1100 mg/kg | [1] |
| English (GB) | | United Kir | ngdom (UK) | | 3/19 |

| Code SELEMIX | : 1.959.4011/E1 9-011 FAST EPOXY HARDENER | Date of issue/Date of revision | : 13 June 2022 |
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SECTION 3: Composition/information on ingredients

| Index: 612-061-00-6 | Eye Dam. 1, H318 Skin Sens. 1, H317 See Section 16 for the full text of the H statements declared |
|---------------------|---|
| | above. |

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>

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 n | neasures |
|--------------------------------|---|
| 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 : Marmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Skin contact : Causes severe burns. Defatting to the skin. May cause an allergic skin reaction. Ingestion : Can cause central nervous system (CNS) depression. Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following: pain watering redness

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| SECTION 4: First | aid measures |
| Inhalation | ✓ Averse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur |
| Ingestion | : Adverse symptoms may include the following: stomach pains |
| 4.3 Indication of any im | nediate medical attention and special treatment needed |
| 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. |

| 5.1 Extinguishing media | |
|---------------------------------------|--|
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |
| 5.2 Special hazards arising | from the substance or mixture |
| Hazards from the substance or mixture | : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| Hazardous combustion products | : Decomposition products may include the following materials: carbon oxides nitrogen oxides |
| 5.3 Advice for firefighters | |
| Special precautions for | : Promptly isolate the scene by removing all persons from the vicinity of the incident if |

| fire-fighters | | there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
|--|---|--|
| Special protective equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European |

standard EN 469 will provide a basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

| 6.1 Personal precautions, pro | tective equipment and emergency procedures |
|---------------------------------|--|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 6.2 Environmental precautions | : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| 6.3 Methods and material for | containment and cleaning up |
| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. |
| 6.4 Reference to other sections | See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. |

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

| 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. | 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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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 |
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| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (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. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| rethoxy-2-propanol | EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 568 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. |
| xylene | EU OEL (Europe, 10/2019). [xylene, mixed isomers] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. |
| 4-methylpentan-2-one | EU OEL (Europe, 10/2019). STEL: 208 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 83 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. |
| ethylbenzene | EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. |
| butan-1-ol | ACGIH TLV (United States, 1/2021). TWA: 20 ppm 8 hours. |

| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) | |
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SECTION 8: Exposure controls/personal protection

| Recommended monitoring | |
|------------------------|---|
| procedures | 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 |
|-----------------------------|------|-----------------------|-------------------------|--------------------|----------|
| I → methoxy-2-propanol | DNEL | Long term Oral | 33 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 43.9 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 78 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 183 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 369 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 553.5 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 553.5 mg/m³ | Workers | Systemic |
| xylene | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 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/m ³ | General population | Systemic |
| | DNEL | Long term Oral | 12.5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Local |
| | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Local |
| 4-methylpentan-2-one | DNEL | Long term Oral | 4.2 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 4.2 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 11.8 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 14.7 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 14.7 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 83 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 83 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 155.2 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 155.2 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 208 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 208 mg/m ³ | Workers | Systemic |
| 2,4,6-tris | DNEL | Long term Oral | 0.075 mg/kg bw/day | General population | |
| (dimethylaminomethyl)phenol | | - | | | - |
| | DNEL | Short term Dermal | 0.075 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.075 mg/kg bw/day | General population | |
| | DNEL | Short term Inhalation | 0.13 mg/m ³ | General population | |
| | DNEL | Long term Inhalation | 0.13 mg/m ³ | General population | |
| | DNEL | Long term Dermal | 0.15 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.53 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 0.6 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 2.1 mg/m ³ | Workers | Systemic |
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SECTION 8: Exposure controls/personal protection

| 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/m³ | Workers | Local |
| butan-1-ol | DNEL | Long term Inhalation | 55 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 310 mg/m ³ | Workers | Local |
| | DNEL | Long term Oral | 1.5625 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 3.125 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 55.357 mg/m ³ | General population | Systemic |
| 3-aminopropyldimethylamine | DNEL | Short term Inhalation | 9.8 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.2 mg/m³ | Workers | Systemic |
| | | | | | |

PNECs

| Product/ingredient name | Туре | Compartment Detail | Value | Method Detail |
|----------------------------|------|------------------------|-----------------|--------------------------|
| 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 |
| 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 | - |
| 4-methylpentan-2-one | - | Fresh water | 0.6 mg/l | Assessment Factors |
| | - | Marine water | 0.06 mg/l | Assessment Factors |
| | - | Sewage Treatment Plant | 27.5 mg/l | Assessment Factors |
| | - | Fresh water sediment | 8.27 mg/kg | Equilibrium Partitioning |
| | - | Marine water sediment | 0.83 mg/kg | Equilibrium Partitioning |
| | - | Soil | 1.3 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 | - |
| butan-1-ol | - | Fresh water | 0.082 mg/l | - |
| | - | Marine water | 0.0082 mg/l | - |
| | - | Fresh water sediment | 0.178 mg/kg | - |
| | - | Marine water sediment | 0.0178 mg/kg | - |
| | - | Soil | 0.015 mg/kg | - |
| | - | Sewage Treatment Plant | 2476 mg/l | - |
| 3-aminopropyldimethylamine | - | Fresh water | 0.034 mg/l | Assessment Factors |
| | - | Marine water | 0.003 mg/l | Assessment Factors |
| | - | Sewage Treatment Plant | 69.5 mg/l | Assessment Factors |
| | - | Fresh water sediment | 0.221 mg/kg dwt | Equilibrium Partitioning |
| | - | Marine water sediment | 0.022 mg/kg dwt | Equilibrium Partitioning |
| | - | Soil | 0.024 mg/kg dwt | Equilibrium Partitioning |

8.2 Exposure controls

| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) | |
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| | 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 below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. |
| Individual protection measu | res |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | : Chemical splash goggles and face shield. Use eye protection according to EN 166. |
| Skin protection | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. |
| Gloves | : nitrile neoprene |
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3 |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

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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.

| <u>Appearance</u> Physical state Colour | : | Liquid. | | | | | | |
|---|---|--|------------|------------|----------------|------------|------------|-------------|
| | | Liquiq. | | | | | | |
| | | Colourless. | | | | | | |
| Odour | ÷ | Not available. | | | | | | |
| Odour threshold | ÷ | Not available. | | | | | | |
| Melting point/freezing point | | May start to solidify a on data for the follow Weighted average: - | ing ingre | dient: 2,4 | 4,6-tris(dimet | | | |
| Initial boiling point and boiling range | : | >37.78°C | | | | | | |
| Flammability | : | liquid | | | | | | |
| Jpper/lower flammability or explosive limits | : | Greatest known rang | je: Lower | 1.48% | Upper: 13.74 | 1% (1-me | thoxy-2-p | ropanol) |
| Flash point Auto-ignition temperature | : | Closed cup: 23°C | | | | | | |
| | Ì | Ingredient name | | °C | °F | | Method | |
| | | 3-aminopropyldimethylan | nine | 215 | 419 | | | |
| | | • | | 2.0 | | | | |
| Decomposition temperature | : | Stable under recomr | nended s | torage a | nd handling o | conditions | s (see Sec | tion 7). |
| рН | : | Not applicable. insolu | uble in wa | ter. | | | | |
| /iscosity | : | Kinematic (40°C): >2 | 21 mm²/s | | | | | |
| /iscosity | : | < 30 s (ISO 6mm) | | | | | | |
| Solubility(ies) | : | | | | | | | |
| Media | | Result | | | | | | |
| cold water | | Not soluble | | | | | | |
| Partition coefficient: n-octanol/ water | : | Not applicable. | | | | | | |
| Vapour pressure | : | | | | | | | |
| | | | Vapoι | r Press | ure at 20°C | Vap | our press | sure at 50° |
| | | Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | | ✓methylpentan-2-one | 15.75 | 2.1 | | | | |
| Evaporation rate | | Highest known value 0.98compared with b | | | ntan-2-one) | Weighted | average: | |
| Relative density | : | 0.92 | | | | | | |
| /apour density | : | Highest known value | : 3.7 (Air | = 1) (x | ylene). Weig | hted aver | age: 3.35 | (Air = 1) |
| Explosive properties | | The product itself is vapour or dust with a | | | the formation | n of an ex | plosible n | nixture of |
| Oxidising properties | : | Product does not pre | esent an c | xidizing | hazard. | | | |
| •••• | | | | | | | | |

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SECTION 9: Physical and chemical properties

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|--|---|
| 10.2 Chemical stability | : The product is stable. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8. |
| 10.5 Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| 10.6 Hazardous decomposition products | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides |

SECTION 11: Toxicological information

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

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------------|------------------------|---------|-------------------------|----------|
| ✓-methoxy-2-propanol | LC50 Inhalation Vapour | Rat | >7000 ppm | 6 hours |
| | LD50 Dermal | Rabbit | 13 g/kg | - |
| | LD50 Oral | Rat | 5.2 g/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| 4-methylpentan-2-one | LC50 Inhalation Vapour | Rat | 11 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 2.08 g/kg | - |
| 2,4,6-tris(dimethylaminomethyl)phenol | LD50 Dermal | Rabbit | 1.28 g/kg | - |
| | LD50 Dermal | Rat | 1280 mg/kg | - |
| | LD50 Oral | Rat | 1200 mg/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 | - |
| butan-1-ol | LC50 Inhalation Vapour | Rat | 24000 mg/m ³ | 4 hours |
| | LC50 Inhalation Vapour | Rat | 8000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 790 mg/kg | - |
| 3-aminopropyldimethylamine | LD50 Dermal | Rabbit | >1000 mg/kg | - |
| | LD50 Oral | Rat | 410 mg/kg | - |

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

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---------------------------------------|--------------------------|---------|-------|-----------------|-------------|
| ylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| 2,4,6-tris(dimethylaminomethyl)phenol | Skin - Visible necrosis | Rabbit | | 4 hours | 7 days |

| English (GB) | United Kingdom (UK) | 12/19 |
|--------------|---------------------|-------|
| | | |

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| Conclusion/Summary | |
|---------------------------|--|
| Skin | : There are no data available on the mixture itself. |
| Eyes | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| Sensitisation | |
| 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 toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|------------------------------|
| ✓-methoxy-2-propanol | Category 3 | - | Narcotic effects |
| xylene | Category 3 | - | Respiratory tract irritation |
| 4-methylpentan-2-one | Category 3 | - | Narcotic effects |
| butan-1-ol | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

| Product/ingredient name | Result |
|--|--|
| xylene ethylbenzene | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |
| Information on likely : Not available. | |

| routes of exposure | |
|------------------------------|---|
| Potential acute health effec | <u>ts</u> |
| Inhalation | : Farmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| Ingestion | : Can cause central nervous system (CNS) depression. |
| Skin contact | : Causes severe burns. Defatting to the skin. May cause an allergic skin reaction. |
| Eye contact | : Causes serious eye damage. |
| Symptoms related to the ph | nysical, chemical and toxicological characteristics |

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|---|--|---|--------------------------|--|--|--|--|
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| SECTION 11: Toxicol | ogical informat | tion | | | | | |
| Inhalation | : Adverse symptoms nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness | | | | | | |
| Ingestion | : Adverse symptoms stomach pains | s may include the following: | | | | | |
| Skin contact | : Adverse symptoms pain or irritation redness dryness cracking blistering may occu | s may include the following: Ir | | | | | |
| Eye contact | : Adverse symptoms pain watering redness | may include the following: | | | | | |
| Delayed and immediate effe | ts as well as chronic | c effects from short and long-term | <u>exposure</u> | | | | |
| Short term exposure 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 effe Not available. | <u>cts</u> | | | | | | |
| Conclusion/Summary | : Not available. | | | | | | |
| General | | ated contact can defat the skin and lea ensitized, a severe allergic reaction n v levels. | | | | | |
| Carcinogenicity | : Suspected of causi exposure. | ing cancer. Risk of cancer depends o | on duration and level of | | | | |
| Mutagenicity | : No known significa | nt effects or critical hazards. | | | | | |
| Reproductive toxicity | : No known significa | nt effects or critical hazards. | | | | | |
| | 0 | | | | | | |

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---------------------------------------|---------------------------|--------------------|----------|
| ✓methoxy-2-propanol | Acute LC50 23300 mg/l | Daphnia | 48 hours |
| | Acute LC50 >4500 mg/l | Fish | 96 hours |
| | Fresh water | | |
| 4-methylpentan-2-one | Acute LC50 >179 mg/l | Fish | 96 hours |
| 2,4,6-tris(dimethylaminomethyl)phenol | Acute LC50 175 mg/l | Fish | 96 hours |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh | Daphnia | 48 hours |
| • | water | | |
| | Chronic NOEC 1 mg/l Fresh | Daphnia - | - |
| | water | Ceriodaphnia dubia | |
| butan-1-ol | Acute LC50 1376 mg/l | Fish | 96 hours |
| 3-aminopropyldimethylamine | Acute LC50 122 mg/l | Fish | 96 hours |

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|-----------|--------------------------|------|----------|
| -methylpentan-2-one | OECD 301F | 83 % - Readily - 28 days | - | - |
| ethylbenzene | - | 79 % - Readily - 10 days | - | - |
| 3-aminopropyldimethylamine | OECD 301D | 69 % - Readily - 20 days | - | - |
| Conclusion/Summary : There are no data available on the mixture itself. | | | | |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|----------------------------|-------------------|------------|------------------|
| xylene | - | - | Readily |
| 4-methylpentan-2-one | - | - | Readily |
| ethylbenzene | - | - | Readily |
| 3-aminopropyldimethylamine | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---------------------------------------|--------|-------------|-----------|
| I → methoxy-2-propanol | <1 | - | low |
| xylene | 3.12 | 7.4 to 18.5 | low |
| 4-methylpentan-2-one | 1.9 | - | low |
| 2,4,6-tris(dimethylaminomethyl)phenol | 0.219 | - | low |
| ethylbenzene | 3.6 | 79.43 | low |
| butan-1-ol | 1 | - | low |
| 3-aminopropyldimethylamine | -0.352 | - | 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

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SECTION 12: Ecological information

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

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

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 | |

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) 15 01 04 metallic packaging | | European waste catalogue (EWC) | |
|---------------------|--|--|--------------------------------|--|
| Container | | | | |
| Special precautions | taken when h Empty contai residues may Do not cut, w | 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. ners or liners may retain some product residues. Vapour from product or create a highly flammable or explosive atmosphere inside the container. eld or grind used containers unless they have been cleaned thoroughly roid dispersal of spilt material and runoff and contact with soil, waterways, | | |

drains and sewers.

14. Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 14.1 UN number or ID number | UN3469 | UN3469 | UN3469 | UN3469 |
| 14.2 UN proper shipping name | PAINT, FLAMMABLE, CORROSIVE | PAINT, FLAMMABLE, CORROSIVE | PAINT, FLAMMABLE, CORROSIVE | PAINT, FLAMMABLE, CORROSIVE |
| 14.3 Transport hazard class(es) | 3 (8) | 3 (8) | 3 (8) | 3 (8) |
| 14.4 Packing group | | | 111 | III |
| | | | | |
| English (G | В) | United Kingdom (I | JK) | 16/19 |

| 14. Trans | oort infor | mation | | | |
|----------------------------------|-----------------------|--------------------|---------------------------|-------------------------|-------------------------|
| 14.5 Environmental hazards | | No. | Yes. | No. | No. |
| Marine pollutai substances | nt Not : | applicable. | Not applicable. | Not applicable. | Not applicable. |
| Additional infor ADR/RID | mation : None ider | ıtified. | | | |
| | : (D/E) | | | | |
| Tunnel code | : The produ | uct is only regula | ted as an environmentally | hazardous substance wl | nen transported in tank |
| ADN | vessels. | | | IMDG : None identified. | |
| ADN | vessels. | itified. | | | |

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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

the event of an accident or spillage.

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : 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

| Category | |
|----------|--|
| P5c | |

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

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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 |
|---------------------|-----------------------|
| Mam. Liq. 3, H226 | On basis of test data |
| Acute Tox. 4, H332 | Calculation method |
| Skin Corr. 1C, H314 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Carc. 2, H351 | Calculation method |
| STOT SE 3, H336 | Calculation method |

Full text of abbreviated H statements

| Full lext of appreviated in Statements | | |
|--|--|--|
| 1 225 | 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. | |
| H351 | Suspected of causing cancer. | |
| H373 | May cause damage to organs through prolonged or repeated | |
| | exposure. | |
| H412 | Harmful to aquatic life with long lasting effects. | |
| EUH066 | Repeated exposure may cause skin dryness or cracking. | |
| Full text of classifications [CLP/GHS] | | |
| Kcute Tox. 4 | ACUTE TOXICITY - Category 4 | |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 | |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 | |
| Carc. 2 | CARCINOGENICITY - Category 2 | |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 | |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 | |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 | |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 | |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B | |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C | |
| | | |

United Kingdom (UK)

English (GB)

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| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
| History | |

| Date of issue/ Date of revision | : 13 June 2022 |
|---------------------------------|--------------------|
| Date of previous issue | : 11 February 2021 |
| Prepared by | : EHS |
| Version | : 16 |

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