SAFETY DATA SHEET

Date of issue/Date of revision : 1.01 : 18 June 2023 Version



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

1.1 Product identifier

Product name : SIGMACOVER 580N HARDENER

Product code : 00376020

Product description

Product type : Liquid. Other means of : Not available.

identification

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 UK CLP/GHS

Mam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F **STOT RE 2, H373** Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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

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SECTION 2: Hazards identification

Hazard pictograms









Signal word : Danger

Hazard statements : Fammable liquid and vapour.

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May damage fertility.

May cause damage to organs through prolonged or repeated exposure.

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. Do not breathe vapour.

Response : Collect spillage.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

P280, P210, P273, P260, P391, P501

Supplemental label

elements

: Not applicable.

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 requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

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

vPvB.

Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

Mixture

3.2 Mixtures

| Product/ingredient name | Identifiers | % | Classification | Type |
|--|---|-----------|--|------|
| penzyl alcohol | REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5 | ≥25 - ≤50 | Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319 | [1] |
| Formaldehyde, polymer with benzenamine, hydrogenated | REACH #: 01-2119983522-33 CAS: 135108-88-2 | ≥10 - ≤25 | Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 | [1] |

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SECTION 3: Composition/information on ingredients

| SECTION 3: Compositi | on/intormation on i | ingredients | | |
|--|--|-------------|---|----------------|
| m-phenylenebis(methylamine) | REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0 | ≥10 - ≤22 | Skin Sens. 1, H317 STOT RE 2, H373 (kidneys) (oral) Aquatic Chronic 3, H412 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 | [1] |
| 2-methylpropan-1-ol | REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 | ≥5.0 - ≤10 | EUH071 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | [1] [2] |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≥1.0 - ≤6.6 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 | [1] [2] |
| bisphenol A | REACH #: 01-2119457856-23 EC: 201-245-8 CAS: 80-05-7 Index: 604-030-00-0 | ≤1.9 | Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=10) | [1] [2] [3] |
| 4,4'-methylenebis (cyclohexylamine) | REACH #: 01-2119541673-38 EC: 217-168-8 CAS: 1761-71-3 | ≥1.0 - ≤5.0 | Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 (liver) (oral) Aquatic Chronic 2, H411 | [1] |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≥1.0 - ≤5.0 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | [1] [2] |
| | | | 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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance of equivalent concern

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

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SECTION 3: Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for

at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label. Keep

person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

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.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

: Do not use water jet.

media

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products

: Decomposition products may include the following materials: carbon oxides nitrogen oxides

5.3 Advice for firefighters

Special protective actions 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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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

6.2 Environmental precautions

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

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for

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SECTION 6: Accidental release measures

emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

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

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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).

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| ₹/methylpropan-1-ol | EH40/2005 WELs (United Kingdom (UK), 1/2020). |
| | STEL: 231 mg/m³ 15 minutes. |
| | STEL: 75 ppm 15 minutes. |
| | TWA: 154 mg/m³ 8 hours. |
| and an a | TWA: 50 ppm 8 hours. |
| xylene | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin. |
| | STEL: 441 mg/m³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 220 mg/m³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| bisphenol A | EH40/2005 WELs (United Kingdom (UK), 1/2020). |
| | TWA: 2 mg/m³ 8 hours. |
| ethylbenzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | STEL: 552 mg/m³ 15 minutes. |
| | STEL: 125 ppm 15 minutes. |
| | TWA: 441 mg/m³ 8 hours. TWA: 100 ppm 8 hours. |
| | TWA. 100 ppill o flours. |

Biological exposure indices

| Product/ingredient name | Exposure indices |
|-------------------------|------------------|
| x ylene | XYLENES |

procedures

Recommended monitoring: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|--|------|-----------------------|------------------------|--------------------|----------|
| <mark></mark> enzyl alcohol | DNEL | Long term Oral | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 4 mg/kg bw/day | General population | Systemic |
| | 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 | Systemic |
| | DNEL | Short term Dermal | 20 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 22 mg/m³ | 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/m³ | Workers | Systemic |
| Formaldehyde, polymer with benzenamine, hydrogenated | DNEL | Long term Inhalation | 0.2 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 2 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 2 mg/m³ | Workers | Systemic |
| | DNEL | Short term Dermal | 6 mg/kg bw/day | Workers | Systemic |
| m-phenylenebis(methylamine) | DNEL | Long term Inhalation | 0.2 mg/m ³ | Workers | Local |
| | DNEL | Long term Dermal | 0.33 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.2 mg/m³ | Workers | Systemic |
| 2-methylpropan-1-ol | DNEL | Long term Inhalation | 55 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 310 mg/m ³ | Workers | Local |
| 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/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 442 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 442 mg/m³ | Workers | Local |
| | | | | | |

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SECTION 8: Exposure controls/personal protection

| _ | LC HON 6. Exposure | COIIL | ois/personal pro | tection | | |
|---|--------------------------|-------|-----------------------|------------------------|--------------------|----------|
| | | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic |
| | | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | Local |
| | | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Local |
| | | DNEL | Short term Inhalation | 260 mg/m³ | General population | Systemic |
| | | DNEL | Long term Inhalation | 221 mg/m³ | Workers | Local |
| | | DNEL | Long term Oral | 12.5 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | Systemic |
| | | DNEL | Long term Dermal | 125 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic |
| | | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Systemic |
| | | DNEL | Short term Inhalation | 442 mg/m³ | Workers | Local |
| | | DNEL | Short term Inhalation | 442 mg/m³ | Workers | Systemic |
| | hianhanal A | DNEL | | 2 mg/m ³ | | • |
| | bisphenol A | | Long term Inhalation | | Workers | Systemic |
| | | DNEL | Short term Inhalation | 2 mg/m³ | Workers | Systemic |
| | | DNEL | Long term Inhalation | 2 mg/m³ | Workers | Local |
| | | DNEL | Short term Inhalation | 2 mg/m³ | Workers | Local |
| | | DNEL | Long term Dermal | 0.031 mg/kg bw/day | Workers | Systemic |
| | | DNEL | Short term Dermal | 0.031 mg/kg bw/day | Workers | Systemic |
| | | DNEL | Long term Inhalation | 1 mg/m³ | General population | Systemic |
| | | DNEL | Short term Inhalation | 1 mg/m³ | General population | Systemic |
| | | DNEL | Long term Inhalation | 1 mg/m³ | General population | Local |
| | | DNEL | Short term Inhalation | 1 mg/m³ | General population | Local |
| | | DNEL | Long term Dermal | 0.002 mg/kg bw/day | General population | Systemic |
| | | DNEL | Short term Dermal | 0.002 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Oral | 0.004 mg/kg bw/day | General population | Systemic |
| | | DNEL | Short term Oral | 0.004 mg/kg bw/day | General population | Systemic |
| | | DNEL | Short term Dermal | 0.0019 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Dermal | 0.0019 mg/kg bw/day | General population | Systemic |
| | | DNEL | Short term Oral | 0.004 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Oral | 0.004 mg/kg bw/day | General population | Systemic |
| | | DNEL | Short term Dermal | 0.031 mg/kg bw/day | Workers | Systemic |
| | | DNEL | Long term Dermal | 0.031 mg/kg bw/day | Workers | Systemic |
| | | DNEL | Short term Inhalation | 1 mg/m ³ | General population | Local |
| | | DNEL | Long term Inhalation | 1 mg/m³ | General population | Local |
| | | DNEL | Short term Inhalation | 1 mg/m³ | General population | Systemic |
| | | DNEL | Short term Inhalation | 2 mg/m³ | Workers | Local |
| | | DNEL | Long term Inhalation | 2 mg/m³ | Workers | Local |
| | | DNEL | Short term Inhalation | 2 mg/m ³ | Workers | Systemic |
| | | DNEL | Long term Inhalation | 2 mg/m³ | Workers | Systemic |
| | | DNEL | | | | |
| | 4.4! mothylanakis | | Long term Inhalation | 1 mg/m³ | General population | Systemic |
| | 4,4'-methylenebis | DNEL | Long term Dermal | 0.053 mg/kg bw/day | Workers | Systemic |
| | (cyclohexylamine) | חאורי | | 0.40 3 | \\/ a w s a wa | C |
| | a Alas alla a sa ma a sa | DNEL | Long term Inhalation | 0.13 mg/m³ | Workers | Systemic |
| | ethylbenzene | 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 |
| | | DMEL | Long term Inhalation | 442 mg/m³ | Workers | Local |
| | | DMEL | Short term Inhalation | 884 mg/m³ | Workers | Systemic |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|-----------------------------|------------------------|-----------------|--------------------------|
| 2 -methylpropan-1-ol | Fresh water | 0.4 mg/l | Assessment Factors |
| | Marine water | 0.04 mg/l | Assessment Factors |
| | Sewage Treatment Plant | 10 mg/l | Assessment Factors |
| | Fresh water sediment | 1.56 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 0.156 mg/kg dwt | - |
| | Soil | 0.076 mg/kg dwt | Equilibrium Partitioning |
| xylene | Fresh water | 0.327 mg/l | - |
| | Marine water | 0.327 mg/l | - |
| | Sewage Treatment Plant | 6.58 mg/l | - |

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SECTION 8: Exposure controls/personal protection

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8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Eve/face protection Skin protection Hand protection

: Chemical splash goggles and face shield.

: 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.

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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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

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SECTION 8: Exposure controls/personal protection

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

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.
Colour : Clear

Odour : Characteristic.
Odour threshold : Not available.

Melting point/freezing point : May start to solidify at the following temperature: 14°C (57.2°F) This is based on

data for the following ingredient: m-phenylenebis(methylamine). Weighted average:

-27.25°C (-17°F)

Initial boiling point and

boiling range

: >37.78°C (>100°F)

Flammability (solid, gas) :

Upper/lower flammability or

explosive limits

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

Flash point : Closed cup: 59°C (138.2°F)

Auto-ignition temperature

| Ingredient name | °C | °F | Method |
|------------------------------------|-----|-----|---------|
| 4,4'-methylenebis(cyclohexylamine) | 300 | 572 | EU A.15 |

Decomposition temperature

pH : Not applicable.

Not applicable. insoluble in water.

Viscosity : Kinematic (40°C): >21 mm²/s

Solubility(ies) :

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

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure :

| | Vapour Pressure at 20°C | | | Vap | re at 50°C | |
|---------------------|-------------------------|------|----------------|-------|------------|--------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| 2-methylpropan-1-ol | <12 | <1.6 | DIN EN 13016-2 | | | |

Relative density : 1.01

Vapour density : Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.51 (Air =

1)

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SECTION 9: Physical and chemical properties

Explosive properties

: The product itself is not explosive, but the formation of an explosible mixture of

vapour or dust with air is possible.

Oxidising properties Particle characteristics : Product does not present an oxidizing hazard.

Median particle size : Not applicable.

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 toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------|---------------------------|-------------|-------------------------|----------|
| <mark></mark> enzyl alcohol | LC50 Inhalation Dusts and | Rat | >4178 mg/m ³ | 4 hours |
| | mists | | | |
| | LD50 Dermal | Rabbit | 2000 mg/kg | - |
| | LD50 Oral | Rat | 1.23 g/kg | - |
| m-phenylenebis (methylamine) | LC50 Inhalation Gas. | Rat | 700 ppm | 1 hours |
| | LD50 Dermal | Rat - Male, | >3100 mg/kg | - |
| | | Female | | |
| | LD50 Oral | Rat | 930 mg/kg | - |
| 2-methylpropan-1-ol | LC50 Inhalation Vapour | Rat | 24.6 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2460 mg/kg | - |
| | LD50 Oral | Rat | 2830 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| bisphenol A | LD50 Dermal | Rabbit | 3600 mg/kg | - |
| | LD50 Oral | Rat | 3.25 g/kg | - |
| 4,4'-methylenebis | LD50 Dermal | Rabbit | 2.11 g/kg | - |
| (cyclohexylamine) | | | | |
| | LD50 Oral | Rat | 0.625 g/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |

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

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SECTION 11: Toxicological information

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| SIGMACOVER 580N HARDENER | 1035.8 | 29022.6 | 27088.7 | 169.2 | 3.5 |
| benzyl alcohol | 1230 | N/A | N/A | N/A | 1.5 |
| Formaldehyde, polymer with benzenamine, hydrogenated | 500 | N/A | N/A | N/A | N/A |
| m-phenylenebis(methylamine) | 930 | N/A | 4500 | N/A | N/A |
| 2-methylpropan-1-ol | 2830 | 2460 | N/A | 24.6 | N/A |
| xylene | 4300 | 1700 | N/A | 11 | N/A |
| bisphenol A | 3250 | 3600 | N/A | N/A | N/A |
| 4,4'-methylenebis(cyclohexylamine) | 625 | 2110 | N/A | N/A | N/A |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------------|--|---------------|-------|-------------------------------|-------------|
| m-phenylenebis(methylamine) xylene | Skin - Severe irritant Skin - Moderate irritant | Rat Rabbit | - | 4 hours 24 hours 500 mg | 4 hours |

Conclusion/Summary: Not available.

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

| Product/ingredient name | Route of exposure | Species | Result |
|--|-------------------|------------|-------------|
| Formaldehyde, polymer with benzenamine, hydrogenated | skin | Guinea pig | Sensitising |
| m-phenylenebis(methylamine) | skin | Mouse | Sensitising |

Conclusion/Summary

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

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Teratogenicity

Conclusion/Summary :

There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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SECTION 11: Toxicological information

| Product/ingredient name | Category | Route of exposure | Target organs |
|--|------------|-------------------|----------------|
| Formaldehyde, polymer with benzenamine, hydrogenated 4,4'-methylenebis(cyclohexylamine) ethylbenzene | Category 2 | oral | kidneys |
| | Category 2 | oral | liver |
| | Category 2 | - | hearing organs |

Aspiration hazard

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

Information on likely routes: Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

pain or irritation redness

dryness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

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SECTION 11: Toxicological information

Conclusion/Summary: Not available.

General : May cause damage to organs through prolonged or repeated exposure. Prolonged

or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity: May damage fertility.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|--|--------------------------------|----------|
| Formaldehyde, polymer with benzenamine, hydrogenated | Acute EC50 63 mg/l | Fish | 96 hours |
| 2-methylpropan-1-ol | Acute EC50 1100 mg/l | Daphnia | 48 hours |
| bisphenol A | Acute LC50 0.885 mg/l Fresh water | Crustaceans | 48 hours |
| | Acute LC50 8.11 mg/l Fresh water | Daphnia - Water flea - Daphnia | 48 hours |
| | | magna - Neonate | |
| | Acute LC50 4.6 mg/l Fresh water | Fish | 96 hours |
| | Chronic NOEC 0.000174 mg/l Fresh water | Fish | 5 months |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |

Conclusion/Summary: Not available.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|------|--------------------------|------|----------|
| ethylbenzene | - | 79 % - Readily - 10 days | - | - |

Conclusion/Summary: Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|-------------------|------------|------------------|
| <mark>b</mark> enzyl alcohol | - | - | Readily |
| xylene | - | - | Readily |
| bisphenol A | - | - | Readily |
| ethylbenzene | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-----------------------------|--------|-------------|-----------|
| <mark></mark> enzyl alcohol | 0.87 | - | Low |
| Formaldehyde, polymer with | - | 209 to 219 | Low |
| benzenamine, hydrogenated | | | |
| m-phenylenebis | 0.18 | 2.69 | Low |
| (methylamine) | | | |
| 2-methylpropan-1-ol | 1 | - | Low |
| xylene | 3.12 | 7.4 to 18.5 | Low |
| bisphenol A | 3.4 | 43.65 | Low |
| 4,4'-methylenebis | 2.03 | - | Low |
| (cyclohexylamine) | | | |
| ethylbenzene | 3.6 | 79.43 | Low |

12.4 Mobility in soil

| English (GB) United Kingdom (UK) | English (GB) | United Kingdom (UK) | <i>14/18</i> |
|----------------------------------|--------------|---------------------|--------------|
|----------------------------------|--------------|---------------------|--------------|

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SECTION 12: Ecological information

Soil/water partition coefficient (Koc)

: Not available.

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

: Yes.

Waste catalogue

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

Packaging

Methods of disposal

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

| Type of packaging | | Waste catalogue |
|-------------------|----------|-----------------|
| Container | 15 01 06 | mixed packaging |

Special precautions

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

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 14.1 UN number | UN3470 | UN3470 | UN3470 | UN3470 |
| 14.2 UN proper shipping name | PAINT, CORROSIVE, FLAMMABLE | PAINT, CORROSIVE, FLAMMABLE | PAINT, CORROSIVE, FLAMMABLE | PAINT, CORROSIVE, FLAMMABLE |
| 14.3 Transport hazard class(es) | 8 (3) | 8 (3) | 8 (3) | 8 (3) |
| 14.4 Packing group | II | II | II | II |
| | | | | |

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Code : 00376020 Date of issue/Date of revision : 18 June 2023 **SIGMACOVER 580N HARDENER**

SECTION 14: Transport information

| 14.5 | Yes. | Yes. | Yes. | Yes. The |
|-----------------------------|-----------------|-----------------|---|-----------------------|
| Environmental | | | | environmentally |
| hazards | | | | hazardous substance |
| | | | | mark is not required. |
| Marine pollutant substances | Not applicable. | Not applicable. | (bisphenol A, 4,4'- methylenebis (cyclohexylamine)) | Not applicable. |

Additional information

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

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

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

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

regulations.

user

14.6 Special precautions 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.

14.7 Transport in bulk according to IMO

instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **UK (GB)/REACH**

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

| Intrinsic property | Ingredient name | Status | Reference number | Date of revision |
|--|--|------------------------|------------------|------------------------|
| Toxic to reproduction Substance of equivalent concern for human health | 4,4'-isopropylidenediphenol 4,4'-isopropylidenediphenol | Candidate Candidate | - | 1/12/2017 1/12/2017 |
| Substance of equivalent concern for environment | 4,4'-isopropylidenediphenol | Candidate | - | 1/12/2017 |

Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Restricted to professional users.

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

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

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SECTION 15: Regulatory information

Category

P5c E2

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

| Classification | Justification |
|---------------------------|-----------------------|
| F am. Liq. 3, H226 | On basis of test data |
| Acute Tox. 4, H302 | Calculation method |
| Acute Tox. 4, H332 | Calculation method |
| Skin Corr. 1B, H314 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Repr. 1B, H360F | Calculation method |
| STOT RE 2, H373 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

Full text of abbreviated H statements

| | TOVILLOU IT SECTION OF THE PROPERTY OF THE PRO |
|--------------|--|
| ⊮ 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. |
| 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. |
| EUH071 | Corrosive to the respiratory tract. |

Full text of classifications

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SECTION 16: Other information

Acute Tox. 4
Aquatic Acute 1
Aquatic Chronic 1
Aquatic Chronic 2
Aquatic Chronic 3
Aquatic Chronic 3
Aquatic Chronic 3
Aquatic Chronic 3
Acute ToxICITY - Category 4
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2
Flam. ABLE LIQUIDS - Category 2
Flam. Liq. 3
FLAMMABLE LIQUIDS - Category 3
Repr. 1B
Skin Corr. 1B
Skin Corr. 1B
Skin Corr. 1C
Skin Irrit. 2
FLAMMABLE LIQUIDS - Category 2
FLAMMABLE LIQUIDS - Category 3
FLAMMABLE LIQUIDS - Category 3
FLAMMABLE LIQUIDS - Category 1
FLAMMABLE LIQUIDS - Category 2
FLAMMABLE LIQUIDS - Category 2
FLAMMABLE LIQUIDS - Category 2
FLAMMABLE LIQUIDS - Category 3
FLAMMABLE LIQUIDS - Category 1
F

Skin Sens. 1 SKIN SENSITISATION - Category 1
Skin Sens. 1B SKIN SENSITISATION - Category 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

<u>History</u>

Date of issue/ Date of : 18 June 2023

revision

Date of previous issue : 9 November 2022

Prepared by : EHS Version : 1.01

Disclaimer

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

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