

SAFETY DATA SHEET



Date of issue/Date of revision

: 3 April 2024

Version

: 9.03

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

1.1 Product identifier

Product name : SIGMAZINC 11 GREY

Product code : 00312622

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** : Coating.

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

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

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


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

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

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SECTION 2: Hazards identification

2.2 Label elements

| | | |
|--|---|---|
| Hazard pictograms | : |  |
| Signal word | : | Warning |
| Hazard statements | : | Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. |
| <u>Precautionary statements</u> | | |
| Prevention | : | Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Wash thoroughly after handling. |
| 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, P264, P391, P501 |
| Hazardous ingredients | : | Not applicable. |
| 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. |
| <u>Special packaging requirements</u> | | |
| Containers to be fitted with child-resistant fastenings | : | Not applicable. |
| Tactile warning of danger | : | Not applicable. |

2.3 Other hazards

| | | |
|---|---|---|
| Product meets the criteria for PBT or vPvB | : | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Other hazards which do not result in classification | : | Prolonged or repeated contact may dry skin and cause irritation. |

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % by weight | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|------------------------------------|--|--------------|--|---|---------|
| zinc powder zinc dust (stabilised) | REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9 | ≥50 - ≤75 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 | ≥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 Aquatic Chronic 3, H412 | ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| Wollastonite | EC: 237-772-5 CAS: 13983-17-0 | ≥5.0 - ≤10 | Not classified. | - | [2] |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≥1.0 - ≤5.0 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Inhalation (vapours)] = 17.8 mg/l | [1] [2] |
| tetraethyl silicate | REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0 | ≥0.30 - ≤2.4 | Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 | ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| 1-nitropropane | EC: 203-544-9 CAS: 108-03-2 Index: 609-001-00-6 | ≥1.0 - ≤5.0 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 | ATE [Oral] = 455 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| zinc oxide | REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 | ≥1.0 - ≤5.0 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| 2-methylaminoethanol | REACH #: 01-2119492297-26 EC: 203-710-0 CAS: 109-83-1 | <1.0 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 STOT SE 3, H335 STOT RE 2, H373 (kidneys, liver, ovary, | ATE [Oral] = 1391 mg/kg ATE [Dermal] = 1443 mg/kg STOT SE 3, H335: C ≥ 5% | [1] |

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SECTION 3: Composition/information on ingredients

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|------------------------|---|------|---|--|---------|
| nitroethane | REACH #: 01-2119966158-27 EC: 201-188-9 CAS: 79-24-3 | <1.0 | spleen, testes) Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 2, H361 Aquatic Chronic 3, H412 | ATE [Oral] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| 2-dimethylaminoethanol | REACH #: 01-2119492298-24 EC: 203-542-8 CAS: 108-01-0 Index: 603-047-00-0 | <1.0 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above. | ATE [Oral] = 1803 mg/kg ATE [Dermal] = 1370 mg/kg ATE [Inhalation (gases)] = 1641 ppm STOT SE 3, H335: C ≥ 5% | [1] [2] |

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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact
- : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation
- : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact
- : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion
- : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders
- : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact
- : Causes serious eye irritation.
- Inhalation
- : No known significant effects or critical hazards.
- Skin contact
- : Causes skin irritation. Defatting to the skin.
- Ingestion
- : No known significant effects or critical hazards.

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SECTION 4: First aid measures

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| <u>Over-exposure signs/symptoms</u> | |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness dryness cracking |
| Ingestion | : No specific data. |

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. |

SECTION 5: Firefighting measures

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| 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 vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion products | : Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides |
| 5.3 Advice for firefighters | |
| Special precautions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

6.3 Methods and materials 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 release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

- 6.4 Reference to other 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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.

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SECTION 7: Handling and storage

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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See 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 |
|-------------------------|--|
| xylene | EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours. |
| Wollastonite | ACGIH TLV (United States, 1/2023). TWA: 1 mg/m³ 8 hours. Form: Inhalable fraction |
| ethylbenzene | EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. |
| tetraethyl silicate | EU OEL (Europe, 1/2022). TWA: 5 ppm 8 hours. TWA: 44 mg/m³ 8 hours. |
| 1-nitropropane | ACGIH TLV (United States, 1/2023). TWA: 91 mg/m³ 8 hours. TWA: 25 ppm 8 hours. |
| nitroethane | EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 312 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 62 mg/m³ 8 hours. |
| 2-dimethylaminoethanol | IPEL (-). TWA: 1 ppm STEL: 3 ppm |

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SECTION 8: Exposure controls/personal protection

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

DNELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|-------------------------|------|-----------------------|-------------------|--------------------|----------|
| xylene | DNEL | Long term Oral | 12.5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 65.3 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 65.3 mg/m³ | 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/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 221 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 260 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 260 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 442 mg/m³ | Workers | Local |
| ethylbenzene | DNEL | Short term Inhalation | 442 mg/m³ | Workers | Systemic |
| | DMEL | Long term Inhalation | 442 mg/m³ | Workers | Local |
| | DMEL | Short term Inhalation | 884 mg/m³ | Workers | Systemic |
| | DNEL | Long term Oral | 1.6 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 15 mg/m³ | General population | Systemic |
| tetraethyl silicate | 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 |
| | DNEL | Long term Dermal | 1.8 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 5.3 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 5.3 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 5.3 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 5.3 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 6.3 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 44 mg/m³ | Workers | Local |
| 1-nitropropane | DNEL | Long term Inhalation | 44 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 44 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 44 mg/m³ | Workers | Systemic |
| | DNEL | Long term Oral | 0.25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.76 mg/m³ | General population | Local |
| | DNEL | Short term Oral | 1.5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 1.5 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 3.6 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 4.6 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 7.1 mg/m³ | Workers | Systemic |
| zinc oxide | DNEL | Short term Inhalation | 9.1 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 21.3 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 30.5 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 50 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 83 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 300 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 500 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.5 mg/m³ | Workers | Local |
| | DNEL | Long term Oral | 0.83 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 2.5 mg/m³ | General population | Systemic |

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SECTION 8: Exposure controls/personal protection

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|------------------------|------|-----------------------|--------------------|--------------------|----------|
| 2-methylaminoethanol | DNEL | Long term Inhalation | 5 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 83 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 83 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.275 mg/m³ | Workers | Systemic |
| | DNEL | Long term Oral | 0.028 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.0484 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 0.08 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 2 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 5 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 5 mg/m³ | General population | Systemic |
| nitroethane | DNEL | Long term Inhalation | 8.4 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 15 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 17 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 25 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 50 mg/m³ | Workers | Local |
| | DNEL | Long term Dermal | 210 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 350 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 1250 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 2100 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 2 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 5 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 5 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 8.4 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 15 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 17 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 25 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 50 mg/m³ | Workers | Local |
| | DNEL | Long term Dermal | 210 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 350 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 1250 mg/kg bw/day | General population | Systemic |
| 2-dimethylaminoethanol | DNEL | Short term Dermal | 2100 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 100 ng/cm² | Workers | Local |
| | DNEL | Long term Oral | 0.148 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.25 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.43755 mg/m³ | General population | Systemic |
| | DNEL | Short term Dermal | 1.2 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.76 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.76 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 5.28 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 13.53 mg/m³ | Workers | Local |

PNECs

| Product/ingredient name | Type | Compartment Detail | Value | Method Detail |
|------------------------------------|------|------------------------|-----------------|--------------------------|
| zinc powder zinc dust (stabilised) | - | Fresh water | 20.6 µg/l | Sensitivity Distribution |
| | - | Marine water | 6.1 µg/l | Sensitivity Distribution |
| | - | Sewage Treatment Plant | 100 µg/l | Assessment Factors |
| | - | Fresh water sediment | 118 mg/kg dwt | Sensitivity Distribution |
| | - | Marine water sediment | 56.5 mg/kg dwt | Equilibrium Partitioning |
| | - | Soil | 35.6 mg/kg dwt | Sensitivity Distribution |
| xylene | - | Fresh water | 0.327 mg/l | - |
| | - | Marine water | 0.327 mg/l | - |
| | - | Sewage Treatment Plant | 6.58 mg/l | - |
| | - | Fresh water sediment | 12.46 mg/kg dwt | - |
| | - | Marine water sediment | 12.46 mg/kg dwt | - |
| | - | Soil | 2.31 mg/kg | - |
| ethylbenzene | - | Fresh water | 0.1 mg/l | Assessment Factors |
| | - | Marine water | 0.01 mg/l | Assessment Factors |

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SECTION 8: Exposure controls/personal protection

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|------------------------|---|------------------------|-----------------|--------------------------|
| zinc oxide | - | 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 | - |
| | - | Fresh water | 20.6 µg/l | Sensitivity Distribution |
| 2-dimethylaminoethanol | - | Marine water | 6.1 µg/l | Sensitivity Distribution |
| | - | Fresh water sediment | 117 mg/kg dwt | Sensitivity Distribution |
| | - | Sewage Treatment Plant | 52 µg/l | Assessment Factors |
| | - | Marine water sediment | 56.5 mg/kg dwt | Assessment Factors |
| | - | Soil | 35.6 mg/kg dwt | Sensitivity Distribution |
| | - | Fresh water | 0.066 mg/l | Assessment Factors |
| | - | Marine water | 0.007 mg/l | Assessment Factors |
| | - | Sewage Treatment Plant | 10 mg/l | Assessment Factors |
| | - | Fresh water sediment | 0.053 mg/kg dwt | Equilibrium Partitioning |
| | - | Soil | 0.018 mg/kg dwt | Equilibrium Partitioning |

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, vapor 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should 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 : For prolonged or repeated handling, use the following type of gloves:

Not recommended: nitrile rubber
Recommended: polyvinyl alcohol (PVA), Viton®

| | | | |
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SECTION 8: Exposure controls/personal protection

| | |
|---------------------------------|---|
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. |
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapor (Type A) and particulate filter P3 |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process 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

Color

Odor

Odor threshold

Melting point/freezing point

Initial boiling point and boiling range

Flammability

Upper/lower flammability or explosive limits

Flash point

Auto-ignition temperature

Decomposition temperature

pH

Viscosity

Solubility(ies)

: Liquid.

: Gray.

: Aromatic.

: Not available.

: May start to solidify at the following temperature: -82.5°C (-116.5°F) This is based on data for the following ingredient: tetraethyl silicate. Weighted average: -94.98°C (-139°F)


: >37.78°C

: Not available.

: Greatest known range: Lower: 1.3% Upper: 23% (tetraethyl silicate)

: Closed cup: 25°C

:

| Ingredient name | °C | °F | Method |
|---|-----|-------|--------|
|  ylene | 432 | 809.6 | |

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

: Not applicable. insoluble in water.

: Kinematic (40°C): >21 mm²/s

:

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

| | | | |
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SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|------------------------------------|---------------------------------|--------------------|---------------|----------|
| zinc powder zinc dust (stabilised) | LC50 Inhalation Dusts and mists | Rat | >5.4 mg/l | 4 hours |
| xylene | LD50 Oral | Rat | >2000 mg/kg | - |
| | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| ethylbenzene | LD50 Oral | Rat | 4.3 g/kg | - |
| | LC50 Inhalation Vapor | Rat | 17.8 mg/l | 4 hours |
| tetraethyl silicate | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| 1-nitropropane | LC50 Inhalation Dusts and mists | Rat | 10 to 16 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 5.878 g/kg | - |
| zinc oxide | LD50 Oral | Rat | 6270 mg/kg | - |
| | LD50 Oral | Rat | 0.455 g/kg | - |
| 2-methylaminoethanol | LC50 Inhalation Dusts and mists | Rat | >5700 mg/m³ | 4 hours |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| nitroethane | LD50 Oral | Rat | >5000 mg/kg | - |
| | LD50 Dermal | Rat - Male, Female | 1443 mg/kg | - |
| 2-dimethylaminoethanol | LD50 Oral | Rat | 1391 mg/kg | - |
| | LD50 Oral | Rat | 1100 mg/kg | - |
| | LC50 Inhalation Gas. | Rat | 1641 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 6100 mg/m³ | 4 hours |
| | LD50 Dermal | Rabbit | 1.37 g/kg | - |
| | LD50 Oral | Rat | 1.803 g/kg | - |

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

Acute toxicity estimates

| Route | ATE value |
|---------------------|----------------|
| Oral | 22738.96 mg/kg |
| Dermal | 9541.01 mg/kg |
| Inhalation (gases) | 354819.72 ppm |
| Inhalation (vapors) | 51.85 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |

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.

Sensitization

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

| | | | |
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SECTION 11: Toxicological information

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 |
|-------------------------|------------|-------------------|------------------------------|
| xylene | Category 3 | - | Respiratory tract irritation |
| tetraethyl silicate | Category 3 | - | Respiratory tract irritation |
| 2-methylaminoethanol | Category 3 | - | Respiratory tract irritation |
| 2-dimethylaminoethanol | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|---------------------------------------|
| ethylbenzene | Category 2 | - | hearing organs |
| 2-methylaminoethanol | Category 2 | - | kidneys, liver, ovary, spleen, testes |

Aspiration hazard

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

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Inhalation : No known significant effects or critical hazards.
- Ingestion : No known significant effects or critical hazards.
- Skin contact : Causes skin irritation. Defatting to the skin.
- Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation : No specific data.
- Ingestion : No specific data.
- Skin contact : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
- Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

Long term exposure

| | | | |
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SECTION 11: Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|--|--|----------|
| Zinc powder zinc dust (stabilised) ethylbenzene zinc oxide | Acute EC50 0.106 mg/l Fresh water | Algae - <i>Pseudokirchneriella subcapitata</i> | 72 hours |
| | Chronic EC10 6.3 µg/l | Daphnia - <i>Daphnia magna</i> - Neonate | 21 days |
| | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - <i>Ceriodaphnia dubia</i> | - |
| | Acute EC50 0.17 mg/l | Algae | 72 hours |
| | Acute EC50 0.481 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | 48 hours |
| | Chronic NOEC 0.017 mg/l Fresh water | Algae | 72 hours |

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

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-----------------------------|--|--|--------|----------|
| ethylbenzene nitroethane | - OECD 301D Ready Biodegradability - Closed Bottle Test | 79 % - Readily - 10 days <0.1 % - 28 days | - - | - |

| | | | |
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SECTION 12: Ecological information

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

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |
| nitroethane | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-------------|-----------|
| xylene | 3.12 | 7.4 to 18.5 | Low |
| ethylbenzene | 3.6 | 79.43 | Low |
| tetraethyl silicate | 3.18 | - | Low |
| 1-nitropropane | 0.79 | - | Low |
| 2-methylaminoethanol | -0.94 | - | Low |
| nitroethane | 0.18 | - | Low |
| 2-dimethylaminoethanol | -0.55 | - | Low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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 Endocrine disrupting properties

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 minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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. |
| European waste catalogue (EWC) | |
| Waste code | Waste designation |
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

| | | | |
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SECTION 13: Disposal considerations

| | |
|---------------------|--|
| Packaging | |
| Methods of disposal | : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |
| Type of packaging | European waste catalogue (EWC) |
| Container | 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. Vapor 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 spilled 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 | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | III | III | III | III |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | Not applicable. | ☑ (Zinc powder - zinc dust (stabilized)) | Not applicable. |

| | |
|------------------------|--|
| Additional information | |
| ADR/RID | : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
| Tunnel code | : (D/E) |
| ADN | : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
| IMDG | : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
| IATA | : The environmentally hazardous substance mark may appear if required by other transportation regulations. |

| | |
|--|---|
| 14.6 Special precautions for user | : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| 14.7 Maritime transport in bulk according to IMO instruments | : Not applicable. |

| | | | |
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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorization](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#) : Not applicable.

[Explosive precursors](#) : ☒ Not applicable.

[Ozone depleting substances \(1005/2009/EU\)](#)

Not listed.

[Seveso Directive](#)


This product is controlled under the Seveso Directive.

[Danger criteria](#)

| Category |
|-----------|
| P5c E1 |

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

 Indicates information that has changed from previously issued version.

[Abbreviations and acronyms](#)

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

[Full text of abbreviated H statements](#)

| | | | |
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SECTION 16: Other information

| | |
|------|--|
| H225 | Highly flammable liquid and vapor. |
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications [CLP/GHS]

| | |
|-------------------|---|
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | AQUATIC HAZARD (ACUTE) - Category 1 |
| Aquatic Chronic 1 | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| Aquatic Chronic 3 | AQUATIC HAZARD (LONG-TERM) - 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 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Repr. 2 | TOXIC TO REPRODUCTION - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| 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 | : 3 April 2024 |
| Date of previous issue | : 2 November 2022 |
| Prepared by | : EHS |
| Version | : 9.03 |

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