

SAFETY DATA SHEET

Date of issue/Date of revision

: 17 September 2025

Version

: 3



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

1.1 Product identifier

Product name : SIGMAWELD 199 PASTE REDBROWN

Product code : 000001099082

Other means of identification

00156917; 00158331 ; 00160925 ; 00174027 ; 00422011 ; 00477594 ; 40199-C2008/6L

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. 2, H225

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

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

| | | |
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| Hazard pictograms | : |  |
| Signal word | : | Danger |
| Hazard statements | : | Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. 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. Avoid breathing vapor. |
| 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, P261, P391, P501 |
| Hazardous ingredients | : | Fatty acids, C18-unsatd., trimers, compds. with oleylamine and Fatty acids, tall-oil, compds. with oleylamine |
| 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 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. |
| Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006. | : | Based on available data, the classification criteria are not met. |

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SECTION 2: Hazards identification

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.

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 | ≥25 - ≤50 | 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 - <20 | 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] |
| 1-methoxy-2-propanol | REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 | ≥5.0 - ≤10 | Flam. Liq. 3, H226 STOT SE 3, H336 | - | [1] [2] |
| zinc oxide | REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 | ≥5.0 - ≤10 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [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 | ATE [Inhalation (vapours)] = 17.8 mg/l | [1] [2] |
| propan-2-ol | REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0 | ≥1.0 - ≤4.0 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | - | [1] [2] |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | REACH #: 01-2119971821-33 CAS: 147900-93-4 | ≤0.30 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) (oral) Aquatic Chronic 2, H411 | ATE [Oral] = 500 mg/kg | [1] |

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SECTION 3: Composition/information on ingredients

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|--|---|--------|---|--|---------|
| Fatty acids, tall-oil, compds. with oleylamine | REACH #: 01-2119974148-28 EC: 288-315-1 CAS: 85711-55-3 | ≤0.30 | Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 (gastrointestinal tract) (oral) | - | [1] |
| lead powder | EC: 231-100-4 CAS: 7439-92-1 Index: 082-013-00-1 | <0.010 | Repr. 1A, H360FD Lact., H362 STOT RE 1, H372 (blood, central nervous system (CNS), kidneys) (oral, inhalation) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above. | Repr. 1A, H360D: C ≥ 0.03% STOT RE 1, H372: C ≥ 0.5% M [Acute] = 10 M [Chronic] = 100 | [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.

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

| | |
|--------------|---|
| Eye contact | : Causes serious eye irritation. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |

Over-exposure signs/symptoms

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SECTION 4: First aid measures

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|--------------|---|
| 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 | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

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SECTION 7: Handling and storage

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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 |
|---|--|
| <div><div></div><div>xylene</div></div> | <div>EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.</div> |
| <div><div></div><div>1-methoxy-2-propanol</div></div> | <div>EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³.</div> |
| <div><div></div><div>ethylbenzene</div></div> | <div>EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.</div> |
| <div><div></div><div>propan-2-ol</div></div> | <div>ACGIH TLV (United States, 1/2024) A4. TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm.</div> |
| <div><div></div><div>lead powder</div></div> | <div>EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds] OEL surveillance 8 hours: 0.015 mg/m³ (lead). EU OEL (Europe, 3/2024) [lead and its inorganic compounds] Non-threshold reprotoxic substance.. TWA 8 hours: 0.03 mg/m³.</div> |

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure indices |
|-------------------------|--|
| Lead powder | EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds] BEI surveillance: 30 µg/100 ml, lead [in blood]. BLV: 70 µg/100 ml, lead [in blood]. BEI surveillance - females of reproductive capacity: 4.5 µg/100 ml, lead [in blood]. |

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/DMELs

| Product/ingredient name | Exposure | Value |
|-------------------------|---|------------------------------|
| Xylene | DNEL - General population - Long term - Oral | Systemic 5 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | Local 65.3 mg/m³ |
| | DNEL - General population - Long term - Inhalation | Systemic 65.3 mg/m³ |
| | DNEL - General population - Long term - Dermal | Systemic 125 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | Systemic 212 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | Local 221 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | Systemic 221 mg/m³ |
| | DNEL - General population - Short term - Inhalation | Local 260 mg/m³ |
| | DNEL - General population - Short term - Inhalation | Systemic 260 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | Local 442 mg/m³ |
| 1-methoxy-2-propanol | DNEL - Workers - Short term - Inhalation | Systemic 442 mg/m³ |
| | DNEL - General population - Long term - Oral | Systemic 33 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | Systemic 43.9 mg/m³ |
| | DNEL - General population - Long term - Dermal | Systemic 78 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | Systemic 183 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | Systemic 369 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | Local 553.5 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | Systemic 553.5 mg/m³ |
| ethylbenzene | DMEL - Workers - Long term - Inhalation | Local 442 mg/m³ |
| | DMEL - Workers - Short term - Inhalation | Systemic 884 mg/m³ |
| | DNEL - General population - Long term - Oral | Systemic 1.6 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | Systemic 15 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | Systemic 77 mg/m³ |
| | DNEL - Workers - Long term - Dermal | Systemic 180 mg/kg bw/day |
| | DNEL - Workers - Short term - Inhalation | Local 293 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | Systemic 500 mg/m³ |
| propan-2-ol | DNEL - Workers - Long term - Dermal | Systemic 888 mg/kg bw/day |
| | DNEL - General population - Long term - Oral | Systemic 26 mg/kg bw/day |
| | DNEL - General population - Short term - Oral | Systemic 51 mg/kg bw/day |
| | | |

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SECTION 8: Exposure controls/personal protection

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| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | DNEL - General population - Long term - Inhalation | Systemic | 89 mg/m³ |
| | DNEL - General population - Short term - Inhalation | Systemic | 178 mg/m³ |
| | DNEL - General population - Long term - Dermal | Systemic | 319 mg/kg bw/day |
| | DNEL - Workers - Short term - Inhalation | Systemic | 1000 mg/m³ |
| | DNEL - General population - Long term - Oral | Systemic | 0.012 mg/kg bw/day |
| Fatty acids, tall-oil, compds. with oleylamine | DNEL - General population - Long term - Dermal | Systemic | 0.012 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | Systemic | 0.024 mg/kg bw/day |
| | DNEL - General population - Long term - Oral | Systemic | 0.012 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | Systemic | 0.012 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | Systemic | 0.024 mg/kg bw/day |

PNECs

| Product/ingredient name | Compartment Detail - Method | Value |
|------------------------------------|--|-----------------|
| zinc powder zinc dust (stabilised) | Fresh water - Sensitivity Distribution | 20.6 µg/l |
| | Marine water - Sensitivity Distribution | 6.1 µg/l |
| | Sewage Treatment Plant - Assessment Factors | 100 µg/l |
| | Fresh water sediment - Sensitivity Distribution | 118 mg/kg dwt |
| | Marine water sediment - Equilibrium Partitioning | 56.5 mg/kg dwt |
| xylene | Soil - Sensitivity Distribution | 35.6 mg/kg dwt |
| | 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 |
| 1-methoxy-2-propanol | Marine water sediment | 12.46 mg/kg dwt |
| | Soil | 2.31 mg/kg |
| | Fresh water - Assessment Factors | 10 mg/l |
| | Marine water - Assessment Factors | 1 mg/l |
| | Sewage Treatment Plant - Assessment Factors | 100 mg/l |
| zinc oxide | Fresh water sediment - Equilibrium Partitioning | 41.6 mg/kg |
| | Marine water sediment - Equilibrium Partitioning | 4.17 mg/kg |
| | Soil - Equilibrium Partitioning | 2.47 mg/kg |
| | Fresh water - Sensitivity Distribution | 20.6 µg/l |
| | Marine water - Sensitivity Distribution | 6.1 µg/l |
| ethylbenzene | Fresh water sediment - Sensitivity Distribution | 117 mg/kg dwt |
| | Sewage Treatment Plant - Assessment Factors | 52 µg/l |
| | Marine water sediment - Assessment Factors | 56.5 mg/kg dwt |
| | Soil - Sensitivity Distribution | 35.6 mg/kg dwt |
| | Fresh water - Assessment Factors | 0.1 mg/l |
| propan-2-ol | Marine water - Assessment Factors | 0.01 mg/l |
| | Sewage Treatment Plant - Assessment Factors | 9.6 mg/l |
| | Fresh water sediment - Equilibrium Partitioning | 13.7 mg/kg dwt |
| | Marine water sediment - Equilibrium Partitioning | 1.37 mg/kg dwt |
| | Soil - Equilibrium Partitioning | 2.68 mg/kg dwt |
| | Secondary Poisoning | 20 mg/kg |
| | Fresh water - Assessment Factors | 140.9 mg/l |
| | Marine water - Assessment Factors | 140.9 mg/l |
| | Secondary Poisoning | 160 mg/kg |
| | Fresh water sediment | 552 mg/kg dwt |
| | Marine water sediment | 552 mg/kg dwt |
| | Sewage Treatment Plant - Assessment Factors | 2251 mg/l |

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| SECTION 8: Exposure controls/personal protection | | |
| | Soil | 28 mg/kg dwt |

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection

: Chemical splash goggles. Use eye protection according to EN 166.
- Skin protection
- Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should 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

: butyl rubber
- Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist 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.

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SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

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

The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.

- Causes serious eye irritation.
- Causes skin irritation.
- May cause an allergic skin reaction.

| Acute toxicity | | |
|--|--|-----------------------|
| Product/ingredient name | Result | Dose / Exposure |
| zinc powder zinc dust (stabilised) | Rat - Oral - LD50 | >2000 mg/kg |
| xylene | Rat - Inhalation - LC50 Dusts and mists | >5.4 mg/l [4 hours] |
| 1-methoxy-2-propanol | Rat - Oral - LD50 | 4.3 g/kg |
| | Rabbit - Dermal - LD50 | 1.7 g/kg |
| | Rabbit - Dermal - LD50 | 13 g/kg |
| | Rat - Oral - LD50 | 5.2 g/kg |
| zinc oxide | Rat - Inhalation - LC50 Vapor | >7000 ppm [6 hours] |
| | Rat - Oral - LD50 | >5000 mg/kg |
| | Rat - Dermal - LD50 | >2000 mg/kg |
| ethylbenzene | Rat - Inhalation - LC50 Dusts and mists | >5700 mg/m³ [4 hours] |
| | Rat - Oral - LD50 | 3.5 g/kg |
| | Rabbit - Dermal - LD50 | 17.8 g/kg |
| propan-2-ol | Rat - Inhalation - LC50 Vapor | 17.8 mg/l [4 hours] |
| | Rat - Oral - LD50 | 5045 mg/kg |
| | <u>Toxic effects:</u> Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity) | |
| | Rabbit - Dermal - LD50 | 12800 mg/kg |
| | <u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity)Behavioral - IrritabilityGastrointestinal - Nausea or vomiting | |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | Rat - Inhalation - LC50 Vapor | 72600 mg/m³ [4 hours] |
| | Rat - Oral - LD50 | >1570 mg/kg |

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SECTION 11: Toxicological information

| Route | ATE value |
|---------------------|----------------|
| Dermal | 11399.96 mg/kg |
| Inhalation (vapors) | 66.47 mg/l |

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

Irritation/Corrosion

| Product/ingredient name | Result |
|-------------------------|---|
| xylene | Rabbit - Skin - Moderate irritant Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours |

Conclusion/Summary

Skin : Causes skin irritation.
Eyes : Causes serious eye irritation.
Respiratory : Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Conclusion/Summary

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

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific target organ toxicity (single exposure)

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

Conclusion/Summary :

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

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--|------------|-------------------|--|
| ethylbenzene | Category 2 | - | hearing organs |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | Category 2 | oral | gastrointestinal tract, immune system, liver |
| Fatty acids, tall-oil, compds. with oleylamine | Category 2 | oral | gastrointestinal tract |
| lead powder | Category 1 | oral, inhalation | blood, central nervous system (CNS), kidneys |

Conclusion/Summary :

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

Aspiration hazard

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

| | | | |
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| | | |
|---|---|--|
| Conclusion/Summary | : | Based on available data, the classification criteria are not met. |
| Information on the likely routes of exposure | : | Not available. |
| <u>Potential acute health effects</u> | | |
| 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. May cause an allergic skin reaction. |
| Eye contact | : | Causes serious eye irritation. |
| <u>Symptoms related to the physical, chemical and toxicological characteristics</u> | | |
| 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 |
| <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> | | |
| <u>Short term exposure</u> | | |
| Potential immediate effects | : | No known significant effects or critical hazards. |
| Potential delayed effects | : | No known significant effects or critical hazards. |
| <u>Long term exposure</u> | | |
| Potential immediate effects | : | No known significant effects or critical hazards. |
| Potential delayed effects | : | No known significant effects or critical hazards. |
| <u>Potential chronic health effects</u> | | |
| General | : | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : | No known significant effects or critical hazards. |
| Mutagenicity | : | No known significant effects or critical hazards. |
| Reproductive toxicity | : | No known significant effects or critical hazards. |
| Other information | : | 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

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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SECTION 11: Toxicological information

11.2.2 Other information

Not available.

SECTION 12: Ecological information

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

12.1 Toxicity

| Product/ingredient name | Result | Species | Dose / Exposure |
|------------------------------------|------------------------------|--|-----------------------|
| Zinc powder zinc dust (stabilised) | Acute - EC50 - Fresh water | Algae - <i>Pseudokirchneriella subcapitata</i> | 0.106 mg/l [72 hours] |
| | Chronic - EC10 | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate | 6.3 µg/l [21 days] |
| | Acute - EC50 - Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> | 354 µg/l [48 hours] |
| | Chronic - LC10 - Fresh water | Fish - Rainbow trout, donaldson trout - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling) | 185 µg/l [30 days] |
| | Chronic - EC10 - Fresh water | Algae - Green algae - <i>Raphidocelis subcapitata</i> - Exponential growth phase | 27.3 µg/l [72 hours] |
| 1-methoxy-2-propanol | Acute - LC50 - Fresh water | Fish - Goldfish | >4500 mg/l [96 hours] |
| zinc oxide | Acute - LC50 | Daphnia - Daphnia | 23300 mg/l [48 hours] |
| | Acute - EC50 - Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate | 0.481 mg/l [48 hours] |
| | Acute - EC50 | Algae | 0.17 mg/l [72 hours] |
| ethylbenzene | Chronic - NOEC - Fresh water | Algae | 0.017 mg/l [72 hours] |
| | Acute - EC50 - Fresh water | Daphnia | 1.8 mg/l [48 hours] |
| | Chronic - NOEC - Fresh water | Daphnia - <i>Ceriodaphnia dubia</i> | 1 mg/l |
| propan-2-ol | Acute - EC50 - Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> | 10.1 g/l [48 hours] |
| lead powder | Acute - LC50 - Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> | 0.594 mg/l [48 hours] |
| | Acute - EC50 - Fresh water | Algae - Green algae - <i>Raphidocelis subcapitata</i> - Exponential growth phase | 20.5 µg/l [72 hours] |
| | Chronic - EC10 - Fresh water | Algae - Green algae - <i>Raphidocelis subcapitata</i> - Exponential growth phase | 3.9 µg/l [72 hours] |

Conclusion/Summary : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

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

| | | | |
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SECTION 12: Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-------------|-----------|
| xylene | 3.12 | 7.4 to 18.5 | Low |
| 1-methoxy-2-propanol | <1 | - | Low |
| ethylbenzene | 3.6 | 79.43 | Low |
| propan-2-ol | 0.05 | - | Low |

12.4 Mobility in soil

Soil/Water partition coefficient

| Product/ingredient name | logK _{oc} | K _{oc} |
|-------------------------|--------------------|-----------------|
| 1-methoxy-2-propanol | 1 | 10.447 |
| ethylbenzene | 2.2 | 170.406 |
| propan-2-ol | 0.54 | 3.4364 |

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

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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 :
[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. |

SECTION 14: Transport information

| | | | | |
|---------------------------------|-----------------|-----------------|--|--|
| | ADR/RID | ADN | IMDG | IATA |
| 14.1 UN number or ID number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | II | II | II | II |
| 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

| Intrinsic property | Ingredient name | Status | Reference number | Date of revision |
|---|-----------------|-------------|---------------------|------------------|
|  Toxic to reproduction | lead powder | Recommended | 11th recommendation | 4/12/2023 |

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | Entry Number (REACH) |
|---|------------------------|
|  SIGMAWELD 199 PASTE REDBROWN lead powder | 3 72 |

Labeling : Not applicable.

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Persistent Organic Pollutants

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

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SECTION 16: Other information

Full text of abbreviated H statements

| | |
|--------|--|
| 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. |
| 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. |
| H360FD | May damage fertility. May damage the unborn child. |
| H362 | May cause harm to breast-fed children. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| 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. |

Full text of classifications [CLP/GHS]

| | |
|-------------------|---|
| 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 2 | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| 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 |
| Lact. | TOXIC TO REPRODUCTION - Effects on or via lactation |
| Repr. 1A | TOXIC TO REPRODUCTION - Category 1A |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITIZATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITIZATION - Category 1A |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3 |

History

| | |
|---------------------------------|---------------------|
| Date of issue/ Date of revision | : 17 September 2025 |
| Date of previous issue | : 20 May 2025 |
| Prepared by | : EHS |
| Version | : 3 |

Disclaimer

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SECTION 16: Other information

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.