

# SAFETY DATA SHEET

Date of issue/Date of revision

: 14 February 2025

Version

: 2.01



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

### 1.1 Product identifier

**Product name** : SIGMAZINC 158/SIGMAGUARD 750 PIGMENT

**Product code** : 000001189343

**Other means of identification**

00444811

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Professional applications.

**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]

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.

### 2.2 Label elements

|                                      |                |                                |                    |
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SECTION 2: Hazards identification

|                                                                                                                                    |   |                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms                                                                                                                  | : |                                                      |
| Signal word                                                                                                                        | : | Warning                                                                                                                               |
| Hazard statements                                                                                                                  | : | Very toxic to aquatic life with long lasting effects.                                                                                 |
| Prevention                                                                                                                         | : | Avoid release to the environment.                                                                                                     |
| Response                                                                                                                           | : | Collect spillage.                                                                                                                     |
| Storage                                                                                                                            | : | Not applicable.                                                                                                                       |
| Disposal                                                                                                                           | : | Dispose of contents and container in accordance with all local, regional, national and international regulations.<br>P273, P391, P501 |
| Supplemental label elements                                                                                                        | : | Not applicable.                                                                                                                       |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | 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.                                                                                                        |
| Other hazards which do not result in classification                                               | : | May form explosible dust-air mixture if dispersed. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. |

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 |
|-------------------------|-------------|-------------|----------------|-------------------------------------------|------|
|                         |             |             |                |                                           |      |
| English (US)            |             | Europe      |                |                                           | 2/15 |

|                                      |                |                                |                    |
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SECTION 3: Composition/information on ingredients

|                                    |                                                                                     |        |                                                                                                                                                                                                                                                         |                                                                                                |         |
|------------------------------------|-------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------|
| zinc powder zinc dust (stabilised) | REACH #: 01-2119467174-37<br>EC: 231-175-3<br>CAS: 7440-66-6<br>Index: 030-001-01-9 | ≥90    | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                                                                                                                                                        | M [Acute] = 1<br>M [Chronic] = 1                                                               | [1]     |
| zinc oxide                         | REACH #: 01-2119463881-32<br>EC: 215-222-5<br>CAS: 1314-13-2<br>Index: 030-013-00-7 | ≤1.0   | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                                                                                                                                                        | M [Acute] = 1<br>M [Chronic] = 1                                                               | [1] [2] |
| lead powder                        | EC: 231-100-4<br>CAS: 7439-92-1<br>Index: 082-013-00-1                              | <0.010 | Repr. 1A, H360FD<br>Lact., H362<br>STOT RE 1, H372 (blood, central nervous system (CNS), kidneys) (oral, inhalation)<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br><b>See Section 16 for the full text of the H statements declared above.</b> | Repr. 1A, H360D: C ≥ 0.03%<br>STOT RE 1, H372: C ≥ 0.5%<br>M [Acute] = 10<br>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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

|                                             |                       |                                       |                           |
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## SECTION 4: First aid measures

- |                     |                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. |
| <b>Skin contact</b> | : No known significant effects or critical hazards.                                                                                      |
| <b>Ingestion</b>    | : No known significant effects or critical hazards.                                                                                      |

### Over-exposure signs/symptoms

- |                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>irritation<br>redness                    |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |
| <b>Skin contact</b> | : No specific data.                                                                       |
| <b>Ingestion</b>    | : No specific data.                                                                       |

### 4.3 Indication of any immediate medical attention and special treatment needed

- |                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to physician</b>  | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | : No specific treatment.                                                                                                    |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                                       |                                                                                                           |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | : Use dry chemical powder.                                                                                |
| <b>Unsuitable extinguishing media</b> | : Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. |

### 5.2 Special hazards arising from the substance or mixture

- |                                              |                                                                                                                                                                                                                                                               |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazards from the substance or mixture</b> | : May form explosible dust-air mixture if dispersed. 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. |
| <b>Hazardous combustion products</b>         | : Decomposition products may include the following materials:<br>metal oxide/oxides                                                                                                                                                                           |

### 5.3 Advice for firefighters

- |                                                       |                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special precautions for fire-fighters</b>          | : 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.                                      |
| <b>Special protective equipment for fire-fighters</b> | : 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 dust. 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** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : 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. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.
- 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 dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  zinc oxide<br><br>lead powder | <b>ACGIH TLV (United States, 1/2024)</b><br>TWA 8 hours: 2 mg/m³. Form: Respirable fraction.<br>STEL 15 minutes: 10 mg/m³. Form: Respirable fraction.<br><b>EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds]</b><br>OEL surveillance 8 hours: 0.015 mg/m³ (lead).<br><b>EU OEL (Europe, 3/2024) [lead and its inorganic compounds]</b> Non-threshold reprotoxic substance..<br>TWA 8 hours: 0.03 mg/m³. |

Biological exposure indices

| Product/ingredient name                                                                        | Exposure indices                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  lead powder | <b>EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds]</b><br>BEI surveillance: 30 µg/100 ml, lead [in blood].<br>BLV: 70 µg/100 ml, lead [in blood].<br>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

PNECs

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

| Product/ingredient name                                                              | Compartment Detail - Method                      | Value          |
|--------------------------------------------------------------------------------------|--------------------------------------------------|----------------|
| Zinc powder zinc dust (stabilised)<br><br><br><br><br><br><br><br><br><br>zinc oxide | 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 |
|                                                                                      | Soil - Sensitivity Distribution                  | 35.6 mg/kg dwt |
|                                                                                      | Fresh water - Sensitivity Distribution           | 20.6 µg/l      |
|                                                                                      | Marine water - Sensitivity Distribution          | 6.1 µg/l       |
|                                                                                      | 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 |

8.2 Exposure controls

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, 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              | : Safety glasses with side shields. Use eye protection according to EN 166.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Skin protection                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hand protection                  | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. |
| Gloves                           | : nitrile rubber, butyl rubber, PVC, Viton®                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Other skin protection            | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Respiratory protection           | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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SECTION 8: Exposure controls/personal protection

Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. 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. Mask type: full-face mask half-face mask Filter type: particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**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

| <b>Appearance</b>                                                                                     |                                                                                                                                   |       |        |            |             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------|--------|------------|-------------|
| <b>Physical state</b>                                                                                 | : Solid.                                                                                                                          |       |        |            |             |
| <b>Product type</b>                                                                                   | : Powder.                                                                                                                         |       |        |            |             |
| <b>Color</b>                                                                                          | : Various                                                                                                                         |       |        |            |             |
| <b>Odor</b>                                                                                           | : Characteristic.                                                                                                                 |       |        |            |             |
| <b>Melting point/freezing point</b>                                                                   | : Not determined.                                                                                                                 |       |        |            |             |
| <b>Boiling point or initial boiling point and boiling range</b>                                       | : Not available.                                                                                                                  |       |        |            |             |
| <b>Flammability</b>                                                                                   | : Not determined. There are no data available on the mixture itself.                                                              |       |        |            |             |
| <b>Lower and upper explosion limit</b>                                                                | : Not applicable.                                                                                                                 |       |        |            |             |
| <b>Minimum explosive concentration (MEC)</b>                                                          | : 10 g/m³                                                                                                                         |       |        |            |             |
| <b>Flash point</b>                                                                                    | : Closed cup: Not applicable.                                                                                                     |       |        |            |             |
| <b>Auto-ignition temperature</b>                                                                      | : Not applicable.                                                                                                                 |       |        |            |             |
| <b>Decomposition temperature</b>                                                                      | : Stable under recommended storage and handling conditions (see Section 7).                                                       |       |        |            |             |
| <b>pH</b>                                                                                             | : Not applicable. insoluble in water.                                                                                             |       |        |            |             |
| <b>Viscosity</b>                                                                                      | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C): Not applicable. |       |        |            |             |
| <b>Solubility</b>                                                                                     | :                                                                                                                                 |       |        |            |             |
| <table><tr><th>Media</th><th>Result</th></tr><tr><td>cold water</td><td>Not soluble</td></tr></table> |                                                                                                                                   | Media | Result | cold water | Not soluble |
| Media                                                                                                 | Result                                                                                                                            |       |        |            |             |
| cold water                                                                                            | Not soluble                                                                                                                       |       |        |            |             |
| <b>Partition coefficient n-octanol/ water (log Pow)</b>                                               | : Not applicable.                                                                                                                 |       |        |            |             |
| <b>Vapor pressure</b>                                                                                 | : Not available.                                                                                                                  |       |        |            |             |
| <b>Relative density</b>                                                                               | : 7.14                                                                                                                            |       |        |            |             |
| <b>Particle characteristics</b>                                                                       |                                                                                                                                   |       |        |            |             |
| <b>Median particle size</b>                                                                           | : 10 - 100 µm                                                                                                                     |       |        |            |             |
| <b>9.2 Other information</b>                                                                          |                                                                                                                                   |       |        |            |             |
| <b>9.2.1 Information with regard to physical hazard classes</b>                                       |                                                                                                                                   |       |        |            |             |

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SECTION 9: Physical and chemical properties

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| Explosive properties       | : Not available.                                |
| Oxidizing properties       | : Product does not present an oxidizing hazard. |
| No additional information. |                                                 |

SECTION 10: Stability and reactivity

|                                         |                                                                                                                                                   |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.                                                      |
| 10.2 Chemical stability                 | : The product is stable.                                                                                                                          |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                                 |
| 10.4 Conditions to avoid                | : When exposed to high temperatures may produce hazardous decomposition products.<br>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:<br>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: 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. |
| Based on available data, the classification criteria are not met.                                                                                                   |

Acute toxicity

| Product/ingredient name            | Result                                  | Dose / Exposure       |
|------------------------------------|-----------------------------------------|-----------------------|
| zinc powder zinc dust (stabilised) | Rat - Oral - LD50                       | >2000 mg/kg           |
|                                    | Rat - Inhalation - LC50 Dusts and mists | >5.4 mg/l [4 hours]   |
| zinc oxide                         | Rat - Oral - LD50                       | >5000 mg/kg           |
|                                    | Rat - Dermal - LD50                     | >2000 mg/kg           |
|                                    | Rat - Inhalation - LC50 Dusts and mists | >5700 mg/m³ [4 hours] |

|                                                                   |                                                                     |
|-------------------------------------------------------------------|---------------------------------------------------------------------|
| <u>Acute toxicity estimates</u>                                   |                                                                     |
| Conclusion/Summary                                                | : Based on available data, the classification criteria are not met. |
| <u>Irritation/Corrosion</u>                                       |                                                                     |
| Conclusion/Summary                                                |                                                                     |
| Skin                                                              | : Based on available data, the classification criteria are not met. |
| Eyes                                                              | : Based on available data, the classification criteria are not met. |
| Respiratory                                                       | : Based on available data, the classification criteria are not met. |
| <u>Respiratory or skin sensitization</u>                          |                                                                     |
| Conclusion/Summary                                                |                                                                     |
| Skin                                                              | : Based on available data, the classification criteria are not met. |
| Respiratory                                                       | : Based on available data, the classification criteria are not met. |
| <u>Mutagenicity</u>                                               |                                                                     |
| Based on available data, the classification criteria are not met. |                                                                     |
| <u>Carcinogenicity</u>                                            |                                                                     |

|                                      |                |                                |                    |
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SECTION 11: Toxicological information

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)

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                                |
|-------------------------|------------|-------------------|----------------------------------------------|
| 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

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

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Ingestion : No known significant effects or critical hazards.
- Skin contact : No known significant effects or critical hazards.
- Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Ingestion : No specific data.
- Skin contact : No specific data.
- Eye contact : Adverse symptoms may include the following:  
irritation  
redness

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

Short term exposure

- Potential immediate effects : No known significant effects or critical hazards.
- Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

- Potential immediate effects : No known significant effects or critical hazards.
- Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

- General : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
- Carcinogenicity : No known significant effects or critical hazards.
- Mutagenicity : No known significant effects or critical hazards.

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SECTION 11: Toxicological information

|                                                                                                                                                                                                              |                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Reproductive toxicity                                                                                                                                                                                        | : No known significant effects or critical hazards.     |
| Other information                                                                                                                                                                                            | : Sanding and grinding dusts may be harmful if inhaled. |
| 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. |                                                         |
| 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]  |
| zinc oxide                         | 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]  |
|                                    | Chronic - NOEC - Fresh water | Algae                                                                                                          | 0.017 mg/l [72 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

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

12.3 Bioaccumulative potential

|              |        |       |
|--------------|--------|-------|
| English (US) | Europe | 11/15 |
|--------------|--------|-------|

|                                      |                |                                |                    |
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SECTION 12: Ecological information

Not available.

12.4 Mobility in soil

Soil/Water partition coefficient

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

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 02 01   | waste coating powders |

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                      |                |                                |                    |
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SECTION 14: Transport information

|                                 | ADR/RID                                                                                          | ADN                                                                                              | IMDG                                                                                             | IATA                                                                                             |
|---------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 14.1 UN number or ID number     | UN3077                                                                                           | UN3077                                                                                           | UN3077                                                                                           | UN3077                                                                                           |
| 14.2 UN proper shipping name    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br><br>(Zinc powder - zinc dust (stabilized)) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br><br>(Zinc powder - zinc dust (stabilized)) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br><br>(Zinc powder - zinc dust (stabilized)) | Environmentally hazardous substance, solid, n.o.s.<br><br>(Zinc powder - zinc dust (stabilized)) |
| 14.3 Transport hazard class(es) | 9                                                                                                | 9                                                                                                | 9                                                                                                | 9                                                                                                |
| 14.4 Packing group              | III                                                                                              | III                                                                                              | III                                                                                              | III                                                                                              |
| 14.5 Environmental hazards      | Yes.                                                                                             | Yes.                                                                                             | Yes.                                                                                             | Yes.                                                                                             |
| Marine pollutant substances     | Not applicable.                                                                                  | Not applicable.                                                                                  | (Zinc powder - zinc dust (stabilized))                                                           | Not applicable.                                                                                  |

Additional information

|             |                                                                                                                                                                                                                                                                               |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADR/RID     | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.                                                                               |
| Tunnel code | : (-)                                                                                                                                                                                                                                                                         |
| ADN         | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.                                                                               |
| IMDG        | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. The segregation group has been manually assigned based upon product analysis. |
| IATA        | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.                                                                                    |

|                                   |                                                                                                                                                                                                                     |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.6 Special precautions for user | : <b>Transport within user’s premises:</b> 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. |
|--------------------------------------------------------------|-------------------|

SECTION 15: Regulatory information

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture |
| <a href="#">EU Regulation (EC) No. 1907/2006 (REACH)</a>                                            |
| <a href="#">Annex XIV - List of substances subject to authorization</a>                             |
| <a href="#">Annex XIV</a>                                                                           |
| None of the components are listed.                                                                  |
| <a href="#">Substances of very high concern</a>                                                     |

|                                      |                |                                |                    |
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SECTION 15: Regulatory information

| Intrinsic property    | Ingredient name | Status      | Reference number | Date of revision |
|-----------------------|-----------------|-------------|------------------|------------------|
| Toxic to reproduction | lead powder     | Recommended | D(2021) 4569-DC  | 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 ) |
|-------------------------|------------------------|
| lead powder             | 72                     |

**Labeling** : Not applicable.

**Explosive precursors** : Not applicable.

[Ozone depleting substances \(EU 2024/590\)](#)

Not listed.

[Seveso Directive](#)

This product is controlled under the Seveso Directive.

[Danger criteria](#)

| Category                                                                            |
|-------------------------------------------------------------------------------------|
|  1 |

**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](#)

|                                        |                                                                                                                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H360FD<br>H362<br>H372<br>H400<br>H410 | May damage fertility. May damage the unborn child.<br>May cause harm to breast-fed children.<br>Causes damage to organs through prolonged or repeated exposure.<br>Very toxic to aquatic life.<br>Very toxic to aquatic life with long lasting effects. |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

[Full text of classifications \[CLP/GHS\]](#)

|                                      |                |                                |                    |
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SECTION 16: Other information

|                                                                        |                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Acute 1<br>Aquatic Chronic 1<br>Lact.<br>Repr. 1A<br>STOT RE 1 | AQUATIC HAZARD (ACUTE) - Category 1<br>AQUATIC HAZARD (LONG-TERM) - Category 1<br>TOXIC TO REPRODUCTION - Effects on or via lactation<br>TOXIC TO REPRODUCTION - Category 1A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                                 |                    |
|---------------------------------|--------------------|
| Date of issue/ Date of revision | : 14 February 2025 |
| Date of previous issue          | : 20 January 2025  |
| Prepared by                     | : EHS              |
| Version                         | : 2.01             |

Disclaimer

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