

# SAFETY DATA SHEET

Date of issue/Date of revision

: 15 February 2026

Version

: 1.02



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

### 1.1 Product identifier

**Product name** : SIGMASHIELD 1090 BASE RAL 1004

**Product code** : 00268075

#### Other means of identification

Not available.

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

**Product use** : Professional applications, Used by spraying.

**Use of the substance/  
mixture** : Coating.

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

### 1.3 Details of the supplier of the safety data sheet

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

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

### 1.4 Emergency telephone number

#### Supplier

+31 20 4075210

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

Muta. 2, H341

Aquatic Chronic 3, H412

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

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

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

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## SECTION 2: Hazards identification

### 2.2 Label elements

Hazard pictograms



Signal word

: Warning

Hazard statements

: Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of causing genetic defects.  
Harmful to aquatic life with long lasting effects.

### Precautionary statements

Prevention

: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing vapour.

Response

: IF exposed or concerned: Get medical advice or attention.

Storage

: Not applicable.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

P202, P280, P273, P261, P308 + P313, P501

Hazardous ingredients

: bis-[4-(2,3-epoxypropoxy)phenyl]propane; 2,3-epoxypropyl neodecanoate; benzyl alcohol and Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine

Supplemental label elements

: Contains epoxy constituents. May produce an allergic reaction.

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

: Not applicable.

### Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Not applicable.

### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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.

Other hazards which do not result in classification

: None known.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name                                                | Identifiers                                                                             | % by weight | Classification                                                                                                             | Specific Conc. Limits, M-factors and ATEs                 | Type |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------|
| Bis-[4-(2,3-epoxipropoxy)phenyl]propane                                | REACH #:<br>01-2119456619-26<br>EC: 216-823-5<br>CAS: 1675-54-3<br>Index: 603-073-00-2  | ≥10 - ≤21   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                                 | Skin Irrit. 2, H315: C ≥ 5%<br>Eye Irrit. 2, H319: C ≥ 5% | [1]  |
| 2,3-epoxypropyl neodecanoate                                           | REACH #:<br>01-2119431597-33<br>EC: 247-979-2<br>CAS: 26761-45-5<br>Index: 607-770-00-2 | ≥1.0 - <3.0 | Skin Sens. 1A, H317<br>Muta. 2, H341<br>Repr. 2, H361d<br>Aquatic Chronic 2, H411                                          | Skin Sens. 1, H317: C ≥ 0.001%                            | [1]  |
| benzyl alcohol                                                         | REACH #:<br>01-2119492630-38<br>EC: 202-859-9<br>CAS: 100-51-6<br>Index: 603-057-00-5   | ≥1.0 - ≤5.0 | Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317                                                            | ATE [Oral] = 1200 mg/kg                                   | [1]  |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | REACH #:<br>01-2119979085-27<br>EC: 309-629-8<br>CAS: 100545-48-0                       | ≤0.30       | Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412<br><br>See Section 16 for the full text of the H statements declared above. | -                                                         | [1]  |

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  
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 recognised skin cleanser. Do NOT use solvents or thinners.                                             |
| Ingestion    | : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.                                                           |

|                                       |                                                          |
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## SECTION 4: First aid measures

**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. May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**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  
**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

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.  
**Unsuitable extinguishing media** : None known.

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

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful 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.

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SECTION 5: Firefighting measures

|                                                |                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small spill | : Stop leak if without risk. Move containers from spill area. 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. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. |

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

7.3 Specific end use(s)  
See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters  
Occupational exposure limits  
No exposure limit value known.

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              |
|-----------------------------------------|-------------------------------------------------------------|----------|--------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | DNEL - Workers - Long term - Inhalation                     | Systemic | 12.25 mg/m³        |
|                                         | DNEL - Workers - Short term - Inhalation                    | Systemic | 12.25 mg/m³        |
|                                         | DNEL - Workers - Long term - Dermal                         | Systemic | 8.33 mg/kg bw/day  |
|                                         | DNEL - Workers - Short term - Dermal                        | Systemic | 8.33 mg/kg bw/day  |
|                                         | DNEL - General population - Consumers - Long term - Dermal  | Systemic | 3.571 mg/kg bw/day |
|                                         | DNEL - General population - Consumers - Short term - Dermal | Systemic | 3.571 mg/kg bw/day |
|                                         | DNEL - General population - Consumers - Long term - Oral    | Systemic | 0.75 mg/kg bw/day  |
|                                         | DNEL - General population - Consumers - Short term - Oral   | Systemic | 0.75 mg/kg bw/day  |
|                                         | DNEL - General population - Long term - Dermal              | Systemic | 89.3 µg/kg bw/day  |
|                                         |                                                             |          |                    |

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## SECTION 8: Exposure controls/personal protection

|                                                                        |                                                     |          |                         |
|------------------------------------------------------------------------|-----------------------------------------------------|----------|-------------------------|
| 2,3-epoxypropyl neodecanoate                                           | DNEL - General population - Long term - Oral        | Systemic | 0.5 mg/kg bw/day        |
|                                                                        | DNEL - Workers - Long term - Dermal                 | Systemic | 0.75 mg/kg bw/day       |
|                                                                        | DNEL - General population - Long term - Inhalation  | Systemic | 0.87 mg/m <sup>3</sup>  |
|                                                                        | DNEL - Workers - Long term - Inhalation             | Systemic | 4.93 mg/m <sup>3</sup>  |
|                                                                        | DNEL - General population - Long term - Dermal      | Systemic | 2.5 mg/kg bw/day        |
|                                                                        | DNEL - General population - Long term - Inhalation  | Systemic | 4 mg/m <sup>3</sup>     |
| benzyl alcohol                                                         | DNEL - Workers - Long term - Dermal                 | Systemic | 4.2 mg/kg bw/day        |
|                                                                        | DNEL - Workers - Long term - Inhalation             | Systemic | 5.88 mg/m <sup>3</sup>  |
|                                                                        | DNEL - General population - Long term - Oral        | Systemic | 2.5 mg/kg bw/day        |
|                                                                        | DNEL - General population - Long term - Oral        | Systemic | 4 mg/kg bw/day          |
|                                                                        | DNEL - General population - Long term - Dermal      | Systemic | 4 mg/kg bw/day          |
|                                                                        | DNEL - General population - Long term - Inhalation  | Systemic | 5.4 mg/m <sup>3</sup>   |
|                                                                        | DNEL - Workers - Long term - Dermal                 | Systemic | 8 mg/kg bw/day          |
|                                                                        | DNEL - General population - Short term - Oral       | Systemic | 20 mg/kg bw/day         |
|                                                                        | DNEL - General population - Short term - Dermal     | Systemic | 20 mg/kg bw/day         |
|                                                                        | DNEL - Workers - Long term - Inhalation             | Systemic | 22 mg/m <sup>3</sup>    |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | DNEL - General population - Short term - Inhalation | Systemic | 27 mg/m <sup>3</sup>    |
|                                                                        | DNEL - Workers - Short term - Dermal                | Systemic | 40 mg/kg bw/day         |
|                                                                        | DNEL - Workers - Short term - Inhalation            | Systemic | 110 mg/m <sup>3</sup>   |
|                                                                        | DNEL - General population - Long term - Inhalation  | Local    | 0.055 mg/m <sup>3</sup> |
|                                                                        | DNEL - Workers - Long term - Inhalation             | Local    | 0.308 mg/m <sup>3</sup> |
|                                                                        |                                                     |          |                         |

### PNECs

| Product/ingredient name                  | Compartment Detail - Method                      | Value           |
|------------------------------------------|--------------------------------------------------|-----------------|
| bis-[4-(2,3-epoxipropoxy)phenyl] propane | Fresh water - Assessment Factors                 | 0.006 mg/l      |
|                                          | Marine water - Assessment Factors                | 0.001 mg/l      |
|                                          | Fresh water sediment - Equilibrium Partitioning  | 0.996 mg/kg dwt |
|                                          | Marine water sediment - Equilibrium Partitioning | 0.1 mg/kg dwt   |
|                                          | Soil - Equilibrium Partitioning                  | 0.196 mg/kg dwt |
|                                          | Sewage Treatment Plant - Assessment Factors      | 10 mg/l         |
|                                          | Secondary Poisoning - Assessment Factors         | 11 mg/kg        |

## 8.2 Exposure controls

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour 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.

### 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** :

|                                       |                                                          |
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## SECTION 8: Exposure controls/personal 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.

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gloves</b>                          | : butyl rubber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Body protection</b>                 | : 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.                                                                                                                                                                                                                                                                                                                                                |
| <b>Other skin protection</b>           | 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.                                                                                                                                                                                                                                                                                                                            |
| <b>Respiratory protection</b>          | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3 |
| <b>Environmental exposure controls</b> | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.                                                                                                                                                                                                                       |

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                                                                 |                                                                      |
|-----------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Physical state</b>                                           | : Liquid.                                                            |
| <b>Colour</b>                                                   | : Yellow.                                                            |
| <b>Odour</b>                                                    | : Aromatic.                                                          |
| <b>Melting point/freezing point</b>                             | : Not determined.                                                    |
| <b>Boiling point or initial boiling point and boiling range</b> | : >37.78°C                                                           |
| <b>Flammability</b>                                             | : Not determined. There are no data available on the mixture itself. |
| <b>Lower and upper explosion limit</b>                          | : Not available.                                                     |
| <b>Flash point</b>                                              | : Closed cup: Not applicable.                                        |
| <b>Auto-ignition temperature</b>                                | :                                                                    |



|                                |            |                                |                    |
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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.
- Suspected of causing genetic defects.

Acute toxicity

| Product/ingredient name                                                | Result                                  | Dose / Exposure     |
|------------------------------------------------------------------------|-----------------------------------------|---------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl] propane                               | Rabbit - Dermal - LD50                  | 23000 mg/kg         |
| 2,3-epoxypropyl neodecanoate                                           | Rat - Oral - LD50                       | 15000 mg/kg         |
|                                                                        | Rat - Oral - LD50                       | 9.6 g/kg            |
| benzyl alcohol                                                         | Rat - Dermal - LD50                     | 3800 mg/kg          |
|                                                                        | Rabbit - Dermal - LD50                  | >2000 mg/kg         |
|                                                                        | Rat - Oral - LD50                       | 1200 mg/kg          |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | Rat - Inhalation - LC50 Dusts and mists | >5 mg/l [4 hours]   |
|                                                                        | Rat - Oral - LD50                       | >2000 mg/kg         |
|                                                                        | Rat - Inhalation - LC50 Dusts and mists | 5.05 mg/l [4 hours] |

Acute toxicity estimates

| Route | ATE value      |
|-------|----------------|
| Oral  | 68719.67 mg/kg |

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

Irritation/Corrosion

| Product/ingredient name                  | Result                                                                                                           |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl] propane | Rabbit - Eyes - Redness of the conjunctivae<br>Duration of treatment/exposure: 24 hours<br>Irritation score: 0.4 |
| -                                        | Rabbit - Eyes - Mild irritant<br>Duration of treatment/exposure: 24 hours<br>Fully reversible in 7 days or less  |
| -                                        | Rabbit - Skin - Erythema/Eschar<br>Duration of treatment/exposure: 4 hours<br>Irritation score: 0.8              |
| -                                        | Rabbit - Skin - Oedema<br>Duration of treatment/exposure: 4 hours<br>Irritation score: 0.5                       |
| -                                        | Rabbit - Skin - Mild irritant<br>Duration of treatment/exposure: 4 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

|                                |            |                                |                    |
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SECTION 11: Toxicological information

| Product/ingredient name                                                | Test              | Result      |
|------------------------------------------------------------------------|-------------------|-------------|
| Bis-[4-(2,3-epoxipropoxy)phenyl]propane                                | Mouse - skin      | Sensitising |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | Guinea pig - skin | Sensitising |

Conclusion/Summary

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

Mutagenicity

Suspected of causing genetic defects.

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)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

**Information on likely routes of exposure** : Not available.

Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

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

Delayed and immediate effects as well as 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.

|                                |            |                                |                    |
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SECTION 11: Toxicological information

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

Potential chronic health effects

- General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity : No known significant effects or critical hazards.
- Mutagenicity : Suspected of causing genetic defects.
- Reproductive toxicity : No known significant effects or critical hazards.
- Other information : 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 vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death.

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      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------|----------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane<br><br>2,3-epoxypropyl neodecanoate<br><br>Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | Chronic - NOEC             | Daphnia                                        | 0.3 mg/l [21 days]   |
|                                                                                                                                                           | Acute - LC50 - Fresh water | Daphnia - <i>daphnia magna</i>                 | 1.8 mg/l [48 hours]  |
|                                                                                                                                                           | Acute - LC50               | Fish - <i>Oncorhynchus mykiss</i>              | 9.6 mg/l [96 hours]  |
|                                                                                                                                                           | Acute - EC50               | Daphnia - <i>Daphnia magna</i>                 | 4.8 mg/l [48 hours]  |
|                                                                                                                                                           | Acute - EC50               | Algae                                          | 3.5 mg/l [96 hours]  |
|                                                                                                                                                           | Acute - LC50               | Fish - <i>Oncorhynchus mykiss</i>              | >10 mg/l [96 hours]  |
|                                                                                                                                                           | Acute - EC50               | Daphnia - <i>Daphnia magna</i>                 | >10 mg/l [48 hours]  |
|                                                                                                                                                           | Acute - EC50               | Algae - <i>Pseudokirchneriella subcapitata</i> | >100 mg/l [72 hours] |

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

12.2 Persistence and degradability

|                                |            |                                |                    |
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SECTION 12: Ecological information

| Product/ingredient name                                                                                | Test                                                 | Result                                  | Dose / Inoculum |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------|-----------------|
| 2,3-epoxypropyl neodecanoate<br>Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | -<br><br>Ready Biodegradability - Closed Bottle Test | 7 to 11% [28 days]<br><br>22% [28 days] |                 |

| Product/ingredient name                                                | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------------------------------------------------|-------------------|------------|------------------|
| Bis-[4-(2,3-epoxipropoxy)phenyl]propane                                | -                 | -          | Not readily      |
| 2,3-epoxypropyl neodecanoate                                           | -                 | -          | Not readily      |
| benzyl alcohol                                                         | -                 | -          | Readily          |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | -                 | -          | Inherent         |

12.3 Bioaccumulative potential

| Product/ingredient name                                                | LogP <sub>ow</sub> | BCF | Potential |
|------------------------------------------------------------------------|--------------------|-----|-----------|
| 2,3-epoxypropyl neodecanoate                                           | 4.4                | -   | High      |
| benzyl alcohol                                                         | 0.87               | -   | Low       |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | >5.86              | -   | High      |

12.4 Mobility in soil

Soil/water partition coefficient

| Product/ingredient name                 | logK <sub>oc</sub> | K <sub>oc</sub> |
|-----------------------------------------|--------------------|-----------------|
| Bis-[4-(2,3-epoxipropoxy)phenyl]propane | 4                  | 10465.7         |
| benzyl alcohol                          | 1.1                | 12.6442         |

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.

|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
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## SECTION 13: Disposal considerations

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

### 13.1 Waste treatment methods

#### Product

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

**Hazardous waste** :  
**European waste catalogue (EWC)**

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

#### Packaging

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

| Type of packaging | 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                        | ADR/RID         | ADN                                                 | IMDG            | IATA            |
|----------------------------------------|-----------------|-----------------------------------------------------|-----------------|-----------------|
| <b>14.1 UN number or ID number</b>     | Not regulated.  | 9006                                                | Not regulated.  | Not regulated.  |
| <b>14.2 UN proper shipping name</b>    | -               | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | -               | -               |
| <b>14.3 Transport hazard class(es)</b> | -               | 9                                                   | -               | -               |
| <b>14.4 Packing group</b>              | -               | -                                                   | -               | -               |
| <b>14.5 Environmental hazards</b>      | No.             | Yes.                                                | No.             | No.             |
| <b>Marine pollutant substances</b>     | Not applicable. | Not applicable.                                     | Not applicable. | Not applicable. |

### Additional information

**ADR/RID** : None identified.  
**ADN** : The product is only regulated as a dangerous good when transported in tank vessels.

|                                |            |                                |                    |
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SECTION 14: Transport information

IMDG : None identified.  
IATA : None identified.

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.

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 authorisation](#)  
[Annex XIV](#)

None of the components are listed.  
[Substances of very high concern](#)

None of the components are listed.  
[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#)

| Product/ingredient name        | Entry Number ( REACH ) |
|--------------------------------|------------------------|
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Labelling : Not applicable.

[Other EU regulations](#)

[Explosive precursors](#) : Not applicable.  
[Ozone depleting substances \(EU 2024/590\)](#)  
Not listed.

[Persistent Organic Pollutants](#)  
Not listed.

[Seveso Directive](#)  
This product is not controlled under the Seveso Directive.

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](#)

|                                |            |                                |                    |
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SECTION 16: Other information

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

|       |                                                    |
|-------|----------------------------------------------------|
| H302  | Harmful if swallowed.                              |
| H315  | Causes skin irritation.                            |
| H317  | May cause an allergic skin reaction.               |
| H319  | Causes serious eye irritation.                     |
| H341  | Suspected of causing genetic defects.              |
| H361d | Suspected of damaging the unborn child.            |
| 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 Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  |
| Muta. 2           | GERM CELL MUTAGENICITY - Category 2             |
| Repr. 2           | REPRODUCTIVE TOXICITY - Category 2              |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                 |
| Skin Sens. 1A     | SKIN SENSITISATION - Category 1A                |
| Skin Sens. 1B     | SKIN SENSITISATION - Category 1B                |

History

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Disclaimer

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