# SAFETY DATA SHEET

**Date of issue/Date of revision** : 20 November 2026 **Version** : 1.05

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

### 1.1 Product identifier

**Product name** : SIGMACOVER 410 Y BASE RAL 9003

**Product code** : 00427088

**Product type** : Liquid.

**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 UK CLP/GHS**

Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Dam. 1, H318
Skin Sens. 1, H317
Repr. 2, H361fd
STOT RE 1, H372
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

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

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

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

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

## SECTION 2: Hazards identification

**Hazard statements** : Flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Suspected of damaging fertility. Suspected of damaging the unborn child.
Causes damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** : Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour.

**Response** : Collect spillage.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
P280, P210, P273, P260, P391, P501

**Supplemental label elements** : 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.

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

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|---|---|---|---|
| crystalline silica, respirable powder (<10 microns) | EC: 238-878-4<br>CAS: 14808-60-7 | ≥25 - ≤50 | STOT RE 1, H372 (inhalation) | [1] [2] |
| bis-[4-(2,3-epoxipropoxi)phenyl] propane | REACH #: 01-2119456619-26<br>EC: 216-823-5<br>CAS: 1675-54-3<br>Index: 603-073-00-2 | ≥5.0 - ≤10 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 | [1] |
| 4-nonylphenol, branched | REACH #: 01-2119510715-45<br>EC: 284-325-5<br>CAS: 84852-15-3<br>Index: 601-053-00-8 | ≥1.0 - <5.0 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361fd<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) | [1] |
| Epoxy Resin (700<MW<=1100) | REACH #: Exempt<br>CAS: 25036-25-3 | ≥1.0 - ≤5.0 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 | [1] |

## SECTION 3: Composition/information on ingredients

| | | | | |
|---|---|---|---|---|
| xylene | REACH #: 01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥1.0 - ≤5.0 | Skin Sens. 1, H317<br>Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | [1] [2] |
| benzyl alcohol | REACH #: 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 | [1] |
| 2-methylpropan-1-ol | REACH #: 01-2119484609-23<br>EC: 201-148-0<br>CAS: 78-83-1<br>Index: 603-108-00-1 | ≥1.0 - ≤5.0 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336 | [1] [2] |
| Nonylphenols | EC: 294-048-1<br>CAS: 91672-41-2 | ≤0.30 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10)<br>EUH071<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
[2] Substance with a workplace exposure limit

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

**Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

## SECTION 4: First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

**Potential acute health effects**

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : Corrosive to the digestive tract. Causes burns.

**Over-exposure signs/symptoms**

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

**Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations

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

**Notes to physician** : 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 dry chemical, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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.

## SECTION 5: Firefighting measures

**Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides
metal oxide/oxides

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

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

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

### 6.3 Methods and material for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

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

## 7.1 Precautions for safe handling

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

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

## 7.2 Conditions for safe storage, including any incompatibilities

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

## 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

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

### Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---|---|
| crystalline silica, respirable powder (<10 microns) | **EH40/2005 WELs (United Kingdom (UK), 1/2020) [silica, respirable crystalline]** Carc.<br>TWA 8 hours: 0.1 mg/m³. Form: Respirable fraction. |
| xylene | **EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-,p- or mixed isomers]** Absorbed through skin.<br>STEL 15 minutes: 441 mg/m³.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 220 mg/m³.<br>STEL 15 minutes: 100 ppm. |
| 2-methylpropan-1-ol | **EH40/2005 WELs (United Kingdom (UK), 1/2020)**<br>STEL 15 minutes: 231 mg/m³.<br>STEL 15 minutes: 75 ppm.<br>TWA 8 hours: 154 mg/m³. |

## SECTION 8: Exposure controls/personal protection

| | |
|---|---|
| | TWA 8 hours: 50 ppm. |

**Biological exposure indices**

| Product/ingredient name | Exposure indices |
|---|---|
| xylene | **EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers]**<br>BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine].<br>Sampling time: post shift. |

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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**

| | | | |
|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi) 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 |
| | 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/m³ |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 4.93 mg/m³ |
| 4-nonylphenol, branched | DNEL - General population - Short term - Oral | *Systemic* | 0.4 mg/kg bw/day |
| | DNEL - General population - Short term - Inhalation | *Systemic* | 0.8 mg/m³ |
| | DNEL - General population - Short term - Dermal | *Systemic* | 7.6 mg/kg bw/day |
| | DNEL - General population - Long term - Oral | *Systemic* | 0.08 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 0.4 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 0.5 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Systemic* | 1 mg/m³ |
| | DNEL - General population - Long term - Dermal | *Systemic* | 3.8 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 7.5 mg/kg bw/day |
| | DNEL - Workers - Short term - Dermal | *Systemic* | 15 mg/kg bw/day |
| xylene | DNEL - General population - Long term - Oral | *Systemic* | 5 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Local* | 65.3 mg/m³ |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 65.3 mg/m³ |
| | DNEL - General population - Long term - Dermal | *Systemic* | 125 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 212 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | *Local* | 221 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 221 mg/m³ |
| | DNEL - General population - Short term - | *Local* | 260 mg/m³ |

## SECTION 8: Exposure controls/personal protection

| | | | |
|---|---|---|---|
| | Inhalation | | |
| | DNEL - General population - Short term - Inhalation | *Systemic* | 260 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Local* | 442 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Systemic* | 442 mg/m³ |
| benzyl alcohol | 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/m³ |
| | 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/m³ |
| | DNEL - General population - Short term - Inhalation | *Systemic* | 27 mg/m³ |
| | DNEL - Workers - Short term - Dermal | *Systemic* | 40 mg/kg bw/day |
| | DNEL - Workers - Short term - Inhalation | *Systemic* | 110 mg/m³ |
| 2-methylpropan-1-ol | DNEL - General population - Long term - Inhalation | *Local* | 55 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Local* | 310 mg/m³ |

**PNECs**

| Product/ingredient name | Compartment Detail - Method | Value |
|---|---|---|
| bis-[4-(2,3-epoxipropoxi)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 |
| xylene | Fresh water | 0.327 mg/l |
| | Marine water | 0.327 mg/l |
| | Sewage Treatment Plant | 6.58 mg/l |
| | Fresh water sediment | 12.46 mg/kg dwt |
| | Marine water sediment | 12.46 mg/kg dwt |
| | Soil | 2.31 mg/kg |
| 2-methylpropan-1-ol | Fresh water - Assessment Factors | 0.4 mg/l |
| | Marine water - Assessment Factors | 0.04 mg/l |
| | Sewage Treatment Plant - Assessment Factors | 10 mg/l |
| | Fresh water sediment - Equilibrium Partitioning | 1.56 mg/kg dwt |
| | Marine water sediment | 0.156 mg/kg dwt |
| | Soil - Equilibrium Partitioning | 0.076 mg/kg dwt |

### 8.2 Exposure controls

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

**Individual protection measures**

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

**Eye/face protection** : Chemical splash goggles and face shield.

**Skin protection**

**Hand protection** :

## 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.

butyl rubber

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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

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

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Colour** : White.

**Odour** : Aromatic. [Strong]

**Odour threshold** : Not available.

**Melting point/freezing point** :

**Initial boiling point and boiling range** : >37.78°C (>100°F)

**Flammability (solid, gas)** : liquid

**Upper/lower flammability or explosive limits** : Not available.

**Flash point** : Closed cup: 34°C (93.2°F)

**Auto-ignition temperature** :

| Ingredient name | °C | °F | Method |
|---|---|---|---|
| 4-nonylphenol, branched | 372 | 701.6 | ASTM E 659 |

**pH** : Not applicable.

## SECTION 9: Physical and chemical properties

Not applicable. insoluble in water.

**Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): >400 $mm^2/s$
Kinematic (40°C): >21 $mm^2/s$

**Solubility(ies)** :

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

**Miscible with water** : No.

**Partition coefficient: n-octanol/water** : Not applicable.

**Vapour pressure** :

| | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|---|---|---|---|---|---|---|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| 2-methylpropan-1-ol | <12.00102 | <1.6 | DIN EN 13016-2 | | | |

**Relative density** : 1.75

**Explosive properties** : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

**Oxidising properties** : Product does not present an oxidizing hazard.

**Particle characteristics**

**Median particle size** : Not applicable.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.
Refer to protective measures listed in sections 7 and 8.

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

**10.6 Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

| Product/ingredient name | Result | Dose / Exposure |
|---|---|---|
| bis-[4-(2,3-epoxipropoxi)phenyl] propane | Rabbit - Dermal - LD50 | 23000 mg/kg |
| | Rat - Oral - LD50 | 15000 mg/kg |
| 4-nonylphenol, branched | Rabbit - Dermal - LD50 | 2.14 g/kg |
| | Rat - Oral - LD50 | 1300 mg/kg |
| | *Toxic effects*: Liver - Other changes Blood - Hemorrhage Gross Metabolite Changes - Weight loss or decreased weight gain | |

## SECTION 11: Toxicological information

| | | |
|---|---|---|
| Epoxy Resin (700<MW<=1100) | Rat - Oral - LD50 | >2000 mg/kg |
| | Rat - Dermal - LD50 | >2000 mg/kg |
| xylene | Rat - Oral - LD50 | 4.3 g/kg |
| | Rabbit - Dermal - LD50 | 1.7 g/kg |
| benzyl alcohol | Rabbit - Dermal - LD50 | >2000 mg/kg |
| | Rat - Oral - LD50 | 1200 mg/kg |
| | Rat - Inhalation - LC50 Dusts and mists | >5 mg/l [4 hours] |
| 2-methylpropan-1-ol | Rat - Oral - LD50 | 2830 mg/kg |
| | Rabbit - Dermal - LD50 | 2460 mg/kg |
| | Rat - Inhalation - LC50 Vapour | 24.6 mg/l [4 hours] |

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

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| SIGMACOVER 410 Y BASE RAL 9003 | 14420.8 | 40616.8 | N/A | 262.8 | N/A |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | 15000 | 23000 | N/A | N/A | N/A |
| 4-nonylphenol, branched | 1300 | 2140 | N/A | N/A | N/A |
| xylene | 4300 | 1700 | N/A | 11 | N/A |
| benzyl alcohol | 1200 | N/A | N/A | N/A | N/A |
| 2-methylpropan-1-ol | 2830 | 2460 | N/A | 24.6 | N/A |
| Nonylphenols | 500 | N/A | N/A | N/A | N/A |

**Irritation/Corrosion**

| Product/ingredient name | Result |
|---|---|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Rabbit - Eyes - Redness of the conjunctivae<br>Duration of treatment/exposure: 24 hours<br>Irritation score: 0.4<br>OECD [Acute Eye Irritation/Corrosion] |
| - | Rabbit - Eyes - Mild irritant<br>Duration of treatment/exposure: 24 hours<br>Fully reversible in 7 days or less<br>OECD [Acute Eye Irritation/Corrosion] |
| - | Rabbit - Skin - Erythema/Eschar<br>Duration of treatment/exposure: 4 hours<br>Irritation score: 0.8<br>OECD [Acute Dermal Irritation/Corrosion] |
| - | Rabbit - Skin - Oedema<br>Duration of treatment/exposure: 4 hours<br>Irritation score: 0.5<br>OECD [Acute Dermal Irritation/Corrosion] |
| - | Rabbit - Skin - Mild irritant<br>Duration of treatment/exposure: 4 hours<br>OECD [Acute Dermal Irritation/Corrosion] |
| 4-nonylphenol, branched | Rabbit - Skin - Erythema/Eschar<br>Irritation score: 4 |
| xylene | Rabbit - Skin - Moderate irritant<br>Amount/concentration applied: 500 mg<br>Duration of treatment/exposure: 24 hours |

**Conclusion/Summary** : Not available.

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

**Eyes** : There are no data available on the mixture itself.

## SECTION 11: Toxicological information

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

**Sensitisation**

| Product/ingredient name | Test | Result |
|---|---|---|
| bis-[4-(2,3-epoxipropoxi)phenyl] propane | Mouse - skin | Sensitising |

**Conclusion/Summary**

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

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

**Mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

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

**Specific target organ toxicity (single exposure)**

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

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| crystalline silica, respirable powder (<10 microns) | Category 1 | inhalation | - |

**Aspiration hazard**

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

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

**Potential acute health effects**

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : Corrosive to the digestive tract. Causes burns.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

**Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

## SECTION 11: Toxicological information

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary** : Not available.

**General** : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : Suspected of damaging fertility. Suspected of damaging the unborn child.

### Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result | Species | Dose / Exposure |
|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | Chronic - NOEC | Daphnia | 0.3 mg/l [21 days] |
| | Acute - LC50 - Fresh water | Daphnia - *daphnia magna* | 1.8 mg/l [48 hours] |
| 4-nonylphenol, branched | Acute - LC50 | Fish | 0.221 mg/l [96 hours] |
| | Acute - EC50 | Algae - Green algae - *Raphidocelis subcapitata* | 0.04 mg/l [72 hours] |
| | Chronic - EC10 - Fresh water | Algae - Green algae - *Desmodesmus subspicatus* | 0.37 mg/l [72 hours] |
| | Acute - LC50 - Fresh water | Crustaceans - Water flea - *Ceriodaphnia cornuta* | 20 µg/l [48 hours] |
| 2-methylpropan-1-ol | Acute - EC50 | Daphnia | 1100 mg/l [48 hours] |
| Nonylphenols | Acute - LC50 | Fish - *Pleuronectes americanus* | 0.017 mg/l [96 hours] |

**Conclusion/Summary** : Not available.

# SECTION 12: Ecological information

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | - | - | Not readily |
| xylene | - | - | Readily |
| benzyl alcohol | - | - | Readily |

## 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| 4-nonylphenol, branched | 5.4 | 251.19 [ASTM E 1022-84] | Low |
| xylene | 3.12 | 7.4 to 18.5 | Low |
| benzyl alcohol | 0.87 | - | Low |
| 2-methylpropan-1-ol | 1 | - | Low |

## 12.4 Mobility in soil

**Soil/water partition coefficient** : Not available.

**Mobility** : Not available.

## 12.5 Results of PBT and vPvB assessment

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|---|---|---|---|---|---|---|---|
| Quartz (SiO2) | No | No | No | No | No | No | No |
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | No | N/A | N/A | No | N/A | N/A | N/A |
| 4-nonylphenol, branched | No | N/A | No | Yes | No | N/A | No |
| Epoxy Resin (700<MW <=1100) | No | N/A | N/A | No | N/A | N/A | N/A |
| xylene | No | N/A | No | No | No | N/A | No |
| benzyl alcohol | No | N/A | N/A | No | N/A | N/A | N/A |
| 2-methylpropan-1-ol | No | N/A | N/A | No | N/A | N/A | N/A |
| Nonylphenols | N/A | N/A | N/A | Yes | N/A | N/A | N/A |

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

# SECTION 13: Disposal considerations

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

## 13.1 Waste treatment methods

**Product**

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

**Hazardous waste**

**Waste catalogue**

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

## SECTION 13: Disposal considerations

**Packaging**

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

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

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

## SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number** | UN1263 | UN1263 | UN1263 | UN1263 |
| **14.2 UN proper shipping name** | PAINT | PAINT | PAINT | PAINT |
| **14.3 Transport hazard class(es)** | 3 | 3 | 3 | 3 |
| **14.4 Packing group** | III | III | III | III |
| **14.5 Environmental hazards** | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| **Marine pollutant substances** | Not applicable. | Not applicable. | (bis-[4-(2,3-epoxipropoxi) phenyl]propane) | Not applicable. |

**Additional information**

**ADR/RID** : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, 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 according to 2.2.3.1.5.2.

**Tunnel code** : (D/E)

**ADN** : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, 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 according to 2.2.3.1.5.2.

**IMDG** : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, 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 according to 2.3.2.5.

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

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

# SECTION 15: Regulatory information

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

### UK (GB)/REACH

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

| Intrinsic property | Ingredient name | Status | Reference number | Date of revision |
|---|---|---|---|---|
| Substance of equivalent concern for environment | 4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | Candidate | - | 12/19/2012 |

**Explosive precursors** : Not applicable.

#### Ozone depleting substances

Not 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) |
|---|---|
| SIGMACOVER 410 Y BASE RAL 9003<br>4-nonylphenol, branched<br>Nonylphenols | 3<br>46<br>46 |

**Labelling** : Not applicable.

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

| Category |
|---|
| P5c<br>E1 |

#### National regulations

| Product/ingredient name | List name | Name on list | Classification | Notes |
|---|---|---|---|---|
| crystalline silica, respirable powder (<10 microns) | EH40/2005 WELs | silica, respirable crystalline | Carc | - |

# SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

## SECTION 16: Other information

| Classification | Justification |
|---|---|
| Flam. Liq. 3, H226 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Repr. 2, H361fd | Calculation method |
| STOT RE 1, H372 | Calculation method |
| Aquatic Acute 1, H400 | Calculation method |
| Aquatic Chronic 1, H410 | Calculation method |

**Full text of abbreviated H statements**

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |

**Full text of classifications**

| | |
|---|---|
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1B | SKIN SENSITISATION - Category 1B |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

**History**

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**Prepared by** : EHS

**Version** : 1.05

**Disclaimer**

## SECTION 16: Other information

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