

# SAFETY DATA SHEET



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

### 1.1 Product identifier

**Product name** : SIGMACOVER 280 BASE YELLOWGREEN  
**Product code** : 00144499  
**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 Cameroun  
BP 1028, Douala  
Cameroon  
Tel: 00237 33 37 83 47  
Fax: 00237 33 37 88 98

**e-mail address of person responsible for this SDS** : PS.ACEMEA@ppg.com

**1.4 Emergency telephone number** : ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00237 33 37 83 47

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Flam. Liq. 3, H226  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Skin Sens. 1, H317  
STOT SE 3, H335  
STOT RE 2, H373  
Aquatic Chronic 2, H411

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

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

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

### 2.2 Label elements

**SECTION 2: Hazards identification****Hazard pictograms****Signal word**

: Warning

**Hazard statements**

: Flammable liquid and vapour.  
 Causes serious eye irritation.  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 May cause respiratory irritation.  
 May cause damage to organs through prolonged or repeated exposure.  
 Toxic to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

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

**Response**

: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage**

: Store in a well-ventilated place. Keep cool.

**Disposal**

: Not applicable.

**Hazardous ingredients**

: xylene  
 Epoxy Resin (700<MW<=1100)  
 Quartz (SiO<sub>2</sub>)

**Supplemental label elements**

: Not applicable.

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

: Not applicable.

**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**

: 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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F.

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

**3.2 Mixtures**

: Mixture

| Product/ingredient name   | Identifiers  | % by weight  | Classification<br>Regulation (EC) No.<br>1272/2008 [CLP]  | Type    |
|---|--|--------------|---|---------|
| xylene  | REACH #: 01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9  | ≥10 - ≤25    | 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>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT RE 1, H372   | [1] [2] |
| Epoxy Resin (700<MW<=1100)  | CAS: 25036-25-3  | ≥10 - ≤25    | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs)<br>Asp. Tox. 1, H304<br>Flam. Liq. 3, H226<br>STOT SE 3, H336   | [1]     |
| Quartz (SiO2)   | EC: 238-878-4<br>CAS: 14808-60-7   | ≥1.0 - ≤5.0  | STOT RE 1, H372<br>(inhalation)   | [1] [2] |
| ethylbenzene  | REACH #: 01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4   | ≥1.0 - ≤5.0  | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs)<br>Asp. Tox. 1, H304<br>Flam. Liq. 3, H226<br>STOT SE 3, H336   | [1] [2] |
| 1-methoxy-2-propanol  | REACH #: 01-2119457435-35<br>EC: 203-539-1<br>CAS: 107-98-2<br>Index: 603-064-00-3   | ≥1.0 - ≤5.0  | Flam. Liq. 3, H226<br>STOT SE 3, H336   | [1] [2] |
| 4-nonylphenol, branched   | REACH #: 01-2119510715-45<br>EC: 284-325-5<br>CAS: 84852-15-3<br>Index: 601-053-00-8 | ≥0.30 - ≤2.4 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361fd<br>(Fertility and Unborn child)<br>Aquatic Acute 1, H400<br>(M=10)<br>Aquatic Chronic 1, H410<br>(M=10)  | [1] [5] |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | REACH #: 01-2119457273-39<br>EC: 918-481-9<br>CAS: 64742-48-9 (EC 918-481-9)         | ≥1.0 - ≤5.0  | Asp. Tox. 1, H304<br>EUH066   | [1]     |
| Urea, polymer with formaldehyde, butylated                            | CAS: 68002-19-7  | ≥1.0 - ≤5.0  | Aquatic Chronic 4, H413   | [1]     |
| toluene   | REACH #: 01-2119471310-51<br>EC: 203-625-9<br>CAS: 108-88-3<br>Index: 601-021-00-3   | ≤0.30        | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361d (Unborn child)<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361fd<br>(Fertility and Unborn child)<br>Aquatic Acute 1, H400<br>(M=10)<br>Aquatic Chronic 1, H410<br>(M=10) | [1] [2] |
| Nonylphenols  | EC: 294-048-1<br>CAS: 91672-41-2   | ≤0.030       | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361fd<br>(Fertility and Unborn child)<br>Aquatic Acute 1, H400<br>(M=10)<br>Aquatic Chronic 1, H410<br>(M=10)  | [1] [5] |

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

EUH071

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

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
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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.
- 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 irritation.
- Inhalation** : May cause respiratory irritation.
- 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 or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking

**SECTION 4: First aid measures**

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

**Notes to physician** :  In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, 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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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

**5.3 Advice for firefighters**

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

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**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. 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. Collect spillage.

## SECTION 6: Accidental release measures

### 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. 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). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

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

### 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 oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in 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)

## SECTION 7: Handling and storage

See Section 1.2 for Identified uses.

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

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

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name    | Exposure limit values  |
|----------------------------|--|
| xylene                     | <b>Ministry of Labor (France, 10/2016). Absorbed through skin.</b><br>STEL: 442 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation<br>STEL: 100 ppm 15 minutes. Form: Risk for sensitisation<br>TWA: 221 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation<br>TWA: 50 ppm 8 hours. Form: Risk for sensitisation  |
| Quartz (SiO <sub>2</sub> ) | <b>Ministry of Labor (France, 10/2016).</b><br>TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable aerosol  |
| ethylbenzene               | <b>Ministry of Labor (France, 10/2016). Absorbed through skin.</b><br>STEL: 442 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation<br>STEL: 100 ppm 15 minutes. Form: Risk for sensitisation<br>TWA: 88.4 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation<br>TWA: 20 ppm 8 hours. Form: Risk for sensitisation |
| 1-methoxy-2-propanol       | <b>Ministry of Labor (France, 10/2016). Absorbed through skin.</b><br>STEL: 375 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation<br>STEL: 100 ppm 15 minutes. Form: Risk for sensitisation<br>TWA: 188 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation<br>TWA: 50 ppm 8 hours. Form: Risk for sensitisation  |
| toluene                    | <b>Ministry of Labor (France, 10/2016). Absorbed through skin.</b><br>STEL: 384 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation<br>STEL: 100 ppm 15 minutes. Form: Risk for sensitisation<br>TWA: 76.8 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation<br>TWA: 20 ppm 8 hours. Form: Risk for sensitisation |

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

### 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

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

- 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.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Gloves** : butyl rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
- 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****9.1 Information on basic physical and chemical properties****Appearance**

- Physical state** : Liquid.
- Colour** : Green.
- Odour** : Aromatic.
- Odour threshold** : Not available.
- pH** : insoluble in water.
- Melting point/freezing point** : May start to solidify at the following temperature:  $-7^{\circ}\text{C}$  ( $<19.4^{\circ}\text{F}$ ) This is based on data for the following ingredient: 4-nonylphenol, branched. Weighted average:  $-85.48^{\circ}\text{C}$  ( $-121.9^{\circ}\text{F}$ )



**SECTION 9: Physical and chemical properties**

|   |   |
|---|---|
| <b>Initial boiling point and boiling range</b>      | : >37.78°C  |
| <b>Flash point</b>                                  | : Closed cup: 29.3°C  |
| <b>Evaporation rate</b>                             | : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.73 compared with butyl acetate                         |
| <b>Flammability (solid, gas)</b>                    | : liquid  |
| <b>Upper/lower flammability or explosive limits</b> | : Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)   |
| <b>Vapour pressure</b>                              | : Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.9 kPa (6.75 mm Hg) (at 20°C) |
| <b>Vapour density</b>                               | : Highest known value: 7.59 (Air = 1) (4-nonylphenol, branched). Weighted average: 3.96 (Air = 1)                     |
| <b>Relative density</b>                             | : 1.41  |
| <b>Solubility(ies)</b>                              | : Insoluble in the following materials: cold water.   |
| <b>Partition coefficient: n-octanol/ water</b>      | : Not applicable.   |
| <b>Auto-ignition temperature</b>                    | : 430°C   |
| <b>Decomposition temperature</b>                    | : Stable under recommended storage and handling conditions (see Section 7).   |
| <b>Viscosity</b>                                    | : Kinematic (40°C): >0.21 cm <sup>2</sup> /s  |
| <b>Viscosity</b>                                    | : 60 - 100 s (ISO 6mm)  |
| <b>Explosive properties</b>                         | : Product does not present an explosion hazard.   |
| <b>Oxidising properties</b>                         | : Product does not present an oxidizing hazard.   |

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name   | Result                 | Species | Dose                | Exposure |
|---|------------------------|---------|---------------------|----------|
| xylene  | LD50 Dermal            | Rabbit  | >1.7 g/kg           | -        |
|   | LD50 Oral              | Rat     | 4.3 g/kg            | -        |
| Epoxy Resin (700<MW<=1100)  | LD50 Dermal            | Rat     | >2000 mg/kg         | -        |
|   | LD50 Oral              | Rat     | >2000 mg/kg         | -        |
| ethylbenzene  | LC50 Inhalation Vapour | Rat     | 17.8 mg/l           | 4 hours  |
|   | LD50 Dermal            | Rabbit  | 17.8 g/kg           | -        |
| 1-methoxy-2-propanol  | LD50 Oral              | Rat     | 3.5 g/kg            | -        |
|   | LD50 Dermal            | Rabbit  | 13 g/kg             | -        |
| 4-nonylphenol, branched   | LD50 Oral              | Rat     | 5.2 g/kg            | -        |
|   | LD50 Dermal            | Rabbit  | 2.14 g/kg           | -        |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics toluene | LD50 Oral              | Rat     | 1300 mg/kg          | -        |
|   | LD50 Oral              | Rat     | >6 g/kg             | -        |
|   | LC50 Inhalation Vapour | Rat     | 49 g/m <sup>3</sup> | 4 hours  |
|   | LD50 Dermal            | Rabbit  | 8.39 g/kg           | -        |
|   | LD50 Oral              | Rat     | 5580 mg/kg          | -        |

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

#### Acute toxicity estimates

| Route                | ATE value      |
|----------------------|----------------|
| Oral                 | 53568.64 mg/kg |
| Dermal               | 5488.91 mg/kg  |
| Inhalation (vapours) | 49.46 mg/l     |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| xylene                  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
|                         | Skin - Erythema/ Eschar  | Rabbit  | 4     | -               | -           |

#### Conclusion/Summary

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

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

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

#### Sensitisation

#### 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.

#### Teratogenicity

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

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

**SECTION 11: Toxicological information**

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| xylene                  | Category 3 | Not applicable.   | Respiratory tract irritation |
| 1-methoxy-2-propanol    | Category 3 | Not applicable.   | Narcotic effects             |
| toluene                 | Category 3 | Not applicable.   | Narcotic effects             |

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

| Product/ingredient name    | Category   | Route of exposure | Target organs  |
|----------------------------|------------|-------------------|----------------|
| Quartz (SiO <sub>2</sub> ) | Category 1 | Inhalation        | Not determined |
| ethylbenzene               | Category 2 | Not determined    | hearing organs |
| toluene                    | Category 2 | Not determined    | Not determined |

**Aspiration hazard**

| Product/ingredient name                                     | Result                         |
|---|--------------------------------|
| xylene  | ASPIRATION HAZARD - Category 1 |
| ethylbenzene  | ASPIRATION HAZARD - Category 1 |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% | ASPIRATION HAZARD - Category 1 |
| aromatics   |                                |
| toluene   | ASPIRATION HAZARD - Category 1 |

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

**Potential acute health effects**

- Inhalation** : May cause respiratory irritation.
- Ingestion** : Corrosive to the digestive tract. Causes burns.
- Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye irritation.

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

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Ingestion** : Adverse symptoms may include the following:  
stomach pains
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking
- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Delayed and immediate effects 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**

**SECTION 11: Toxicological information**

Not available.

|                              |   |
|------------------------------|---|
| <b>Conclusion/Summary</b>    | : Not available.  |
| <b>General</b>               | : May cause 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. |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards.   |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards.   |
| <b>Teratogenicity</b>        | : No known significant effects or critical hazards.   |
| <b>Developmental effects</b> | : No known significant effects or critical hazards.   |
| <b>Fertility effects</b>     | : No known significant effects or critical hazards.   |
| <b>Other information</b>     | : Not available.  |

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Epoxy Resin (700<MW<=1100). May produce an allergic reaction.

**SECTION 12: Ecological information****12.1 Toxicity**

| Product/ingredient name                               | Result  | Species                                   | Exposure             |
|---|---|---|----------------------|
| ethylbenzene  | Acute LC50 150 to 200 mg/l<br>Fresh water                     | Fish                                      | 96 hours             |
| 1-methoxy-2-propanol                                  | Acute LC50 23300 mg/l<br>Acute LC50 >4500 mg/l<br>Fresh water | Daphnia<br>Fish                           | 48 hours<br>96 hours |
| 4-nonylphenol, branched<br>Phenol, 2-nonyl-, branched | Acute LC50 0.221 mg/l<br>Acute LC50 0.017 mg/l                | Fish<br>Fish - Pleuronectes<br>americanus | 96 hours<br>96 hours |

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

**12.2 Persistence and degradability**

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

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

**12.3 Bioaccumulative potential**

**SECTION 12: Ecological information**

| Product/ingredient name | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------|--------------------|-------------|-----------|
| xylene                  | 3.16               | 7.4 to 18.5 | low       |
| ethylbenzene            | 3.15               | 79.43       | low       |
| 4-nonylphenol, branched | -                  | 251.19      | low       |
| toluene                 | 2.73               | 8.32        | low       |

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

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

**12.6 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** : Yes.

**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. 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         | IMDG                      | IATA   |
|---------------------------------|-----------------|---------------------------|--|
| 14.1 UN number                  | UN1263          | UN1263                    | UN1263   |
| 14.2 UN proper shipping name    | PAINT           | PAINT                     | PAINT  |
| 14.3 Transport hazard class(es) | 3               | 3                         | 3  |
| 14.4 Packing group              | III             | III                       | III  |
| 14.5 Environmental hazards      | Yes.            | Yes.                      | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances     | Not applicable. | (4-nonylphenol, branched) | Not applicable.  |

### Additional information

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

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

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : 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

| Ingredient name            | Intrinsic property                              | Status    | Reference number | Date of revision |
|----------------------------|---|-----------|------------------|------------------|
| 4-nonylphenol, branched    | Substance of equivalent concern for environment | Candidate | ED/169/2012      | 12/19/2012       |
| Phenol, 2-nonyl-, branched | Substance of equivalent concern for environment | Candidate | ED/169/2012      | 10/29/2013       |

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**SECTION 15: Regulatory information**Other national and international regulations.Ozone depleting substances (1005/2009/EU)

Not listed.

|  |   |  |                |     |
|--|---|--|----------------|-----|
| <b>Social Security Code, Articles L 461-1 to L 461-7</b> | : |  xylene | RG 4bis, RG 84 | [1] |
|  |   | Epoxy Resin (700<MW<=1100)   | RG 51          |     |
|  |   | Quartz (SiO <sub>2</sub> )   | RG 25          |     |
|  |   | ethylbenzene   | RG 84          |     |
|  |   | 1-methoxypropan-2-ol   | RG 84          |     |
|  |   | toluene  | RG 4bis, RG 84 | [1] |

Surveillance médicale spéciale selon l'arrêté du 11 juillet 1977:

[1] Benzène et homologues


Pour les applications des peintures et vernis par pulvérisation

**Reinforced medical surveillance** : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable


**References** : Reinforced medical surveillance ; Decree no. 2001-97 of 1 February 2001 establishing specific rules for the prevention of risks from carcinogens, mutagens and reprotoxics and amending the Labour code ; Decree no. 2003-1254 of 23 December 2003 relating to prevention of chemical risks and amending the Labour code ; Decree no. 2004-187 of 26 February 2004 on the placing on the market of biocidal products ; Decree no. 88-1231 of 29/12/1988 relating to poisonous preparations and substances. ; Decree no. 95-517 of 15 May 1997, relating to the classification of dangerous waste. ; Labour code article: R231-53 ; Labour code: Occupational air (ventilation, air purification): Art. R 232-5 to R 232-5-14 ; Labour code: Prevention of chemical risk: Art.R231-51 and R 231-54 to R 231-54-9 ; Labour code: Prevention of fires: Art.R232-12-13 to R 232-12-29 and R 233-30 ; Labour code: provisions applicable to women: Art. L 234-3 to L 236-6 ; Labour code: provisions applicable to young workers: Art. L 234-3 to L 236-6; Art: R234-16 ; Labour code: Sanitary installations: Art. R 232-2 à R 232-2-7 ; Law 76-663 of 19 July 1976 amending and implementing decree of 21 September 1977 relating to classified installations for the protection of the environment ; Tables of anticipated professional diseases according to article R461-3 of the labour code

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

**Full text of abbreviated H statements** :  H225 Highly flammable liquid and vapour.  
 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.

**SECTION 16: Other information**

|   |                              |  |
|---|------------------------------|--|
|   | H335                         | May cause respiratory irritation.  |
|   | H336                         | May cause drowsiness or dizziness.   |
|   | H361d                        | Suspected of damaging the unborn child.  |
|   | H361fd                       | Suspected of damaging fertility. Suspected of damaging the unborn child.                     |
|   | H372                         | Causes damage to organs through prolonged or repeated exposure if (inhalation) inhaled.      |
|   | H373                         | May cause damage to organs through prolonged or repeated exposure.                           |
|   | H400                         | Very toxic to aquatic life.  |
|   | H410                         | Very toxic to aquatic life with long lasting effects.  |
|   | H411                         | Toxic to aquatic life with long lasting effects.   |
|   | H413                         | May cause long lasting harmful effects to aquatic life.                                      |
| <b>Full text of classifications [CLP/GHS]</b> | Acute Tox. 4, H302           | ACUTE TOXICITY (oral) - Category 4   |
|   | Acute Tox. 4, H312           | ACUTE TOXICITY (dermal) - Category 4   |
|   | Acute Tox. 4, H332           | ACUTE TOXICITY (inhalation) - Category 4   |
|   | Aquatic Acute 1, H400        | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1   |
|   | Aquatic Chronic 1, H410      | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1  |
|   | Aquatic Chronic 2, H411      | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2  |
|   | Aquatic Chronic 4, H413      | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4  |
|   | Asp. Tox. 1, H304            | ASPIRATION HAZARD - Category 1   |
|   | EUH066                       | Repeated exposure may cause skin dryness or cracking.  |
|   | EUH071                       | Corrosive to the respiratory tract.  |
|   | Eye Dam. 1, H318             | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1   |
|   | Eye Irrit. 2, H319           | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2   |
|   | Flam. Liq. 2, H225           | FLAMMABLE LIQUIDS - Category 2   |
|   | Flam. Liq. 3, H226           | FLAMMABLE LIQUIDS - Category 3   |
|   | Repr. 2, H361d               | REPRODUCTIVE TOXICITY (Unborn child) - Category 2  |
|   | Repr. 2, H361fd              | REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 2                              |
|   | Skin Corr. 1B, H314          | SKIN CORROSION/IRRITATION - Category 1B  |
|   | Skin Irrit. 2, H315          | SKIN CORROSION/IRRITATION - Category 2   |
|   | Skin Sens. 1, H317           | SKIN SENSITISATION - Category 1  |
|   | STOT RE 1, H372 (inhalation) | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (inhalation) - Category 1                 |
|   | STOT RE 2, H373              | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2                              |
|   | STOT SE 3, H335              | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 |
|   | STOT SE 3, H336              | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3             |

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