

# 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 1500 BASE GREY

**Product code** : 00237617

**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 SPRL/BVBA  
Tweemontstraat 104  
B-2100 Deurne  
Belgium  
Telephone +32-33606311  
Fax +32-33606435

**e-mail address of person  
responsible for this SDS** : PMC.Safety@PPG.com

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : Numéro de téléphone d'appel d'urgence : 01 45 42 59 59  
(Association ORFILA, organisme agréé prévu au 4ème alinéa de l'article L231-7 du  
code du travail)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Skin Irrit. 2, H315

Eye Dam. 1, H318

Skin Sens. 1, H317

Muta. 2, H341

Repr. 2, H361fd (Fertility and Unborn child)

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

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

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

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

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## SECTION 2: Hazards identification

### 2.2 Label elements

Hazard pictograms :



Signal word :

Danger

Hazard statements :

Causes serious eye damage.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Suspected of damaging fertility. Suspected of damaging the unborn child.  
Suspected of causing genetic defects.  
Very toxic to aquatic life with long lasting effects.

### Precautionary statements

Prevention :

Wear protective gloves. Wear protective clothing. Wear eye or face protection.  
Avoid breathing vapour.

Response :

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage :

Store locked up.

Disposal :

Not applicable.  
P280, P261, P305 + P351 + P338, P405

Hazardous ingredients :

epoxy resin (MW ≤ 700)  
2,3-epoxypropyl neodecanoate  
4-nonylphenol, branched

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 :

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.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

: Mixture

| Product/ingredient name      | Identifiers                                                                          | % by weight | Classification                                                                                                                                                                                                                                                           |         |
|------------------------------|--------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                              |                                                                                      |             | Regulation (EC) No. 1272/2008 [CLP]                                                                                                                                                                                                                                      | Type    |
| epoxy resin (MW ≤ 700)       | REACH #: 01-2119456619-26<br>EC: 500-033-5<br>CAS: 25068-38-6                        | ≥25 - ≤50   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                                                                                                                                                                               | [1]     |
| trizinc bis(orthophosphate)  | REACH #: 01-2119485044-40<br>EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6  | ≥5.0 - ≤10  | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)                                                                                                                                                                                                             | [1]     |
| 2,3-epoxypropyl neodecanoate | REACH #: 01-2119431597-33<br>EC: 247-979-2<br>CAS: 26761-45-5                        | ≥5.0 - ≤10  | Skin Sens. 1, H317<br>Muta. 2, H341<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 (Fertility and Unborn child)<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10)                                                                                          | [1] [5] |
| 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>Acute Tox. 4, H332<br>Eye Irrit. 2, H319                                                                                                                                                                                                           | [1]     |
| zinc oxide                   | REACH #: 01-2119463881-32<br>EC: 215-222-5<br>CAS: 1314-13-2<br>Index: 030-013-00-7  | ≥1.0 - ≤5.0 | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)                                                                                                                                                                                                             | [1]     |
| Nonylphenols                 | EC: 294-048-1<br>CAS: 91672-41-2                                                     | ≤0.10       | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361fd (Fertility and Unborn child)<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10)<br>EUH071<br><b>See Section 16 for the full text of the H statements declared above.</b> | [1] [5] |

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.

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### SECTION 3: Composition/information on ingredients

- [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** : 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.
- 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. 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  
 blistering may occur  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations

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## SECTION 4: First aid measures

**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 an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

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

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**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. Do not breathe 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".

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## SECTION 6: Accidental release measures

**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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

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

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing 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.

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## SECTION 7: Handling and storage

### 7.2 Conditions for safe storage, including any incompatibilities

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

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

## SECTION 8: Exposure controls/personal protection

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

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### Recommended monitoring procedures

: 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.

#### DNELs

| Product/ingredient name     | Type | Exposure              | Value                   | Population                     | Effects  |
|-----------------------------|------|-----------------------|-------------------------|--------------------------------|----------|
| epoxy resin (MW ≤ 700)      | DNEL | Long term Inhalation  | 12.25 mg/m <sup>3</sup> | Workers                        | Systemic |
|                             | DNEL | Short term Inhalation | 12.25 mg/m <sup>3</sup> | Workers                        | Systemic |
|                             | DNEL | Long term Dermal      | 8.33 mg/kg bw/day       | Workers                        | Systemic |
|                             | DNEL | Short term Dermal     | 8.33 mg/kg bw/day       | Workers                        | Systemic |
|                             | DNEL | Long term Dermal      | 3.571 mg/kg bw/day      | General population [Consumers] | Systemic |
|                             | DNEL | Short term Dermal     | 3.571 mg/kg bw/day      | General population [Consumers] | Systemic |
|                             | DNEL | Long term Oral        | 0.75 mg/kg bw/day       | General population [Consumers] | Systemic |
|                             | DNEL | Short term Oral       | 0.75 mg/kg bw/day       | General population [Consumers] | Systemic |
| trizinc bis(orthophosphate) | DNEL | Long term Oral        | 0.83 mg/kg bw/day       | General population             | Systemic |

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

|                              |      |                       |                       |                    |          |
|------------------------------|------|-----------------------|-----------------------|--------------------|----------|
| 2,3-epoxypropyl neodecanoate | DNEL | Long term Inhalation  | 2.5 mg/m <sup>3</sup> | General population | Systemic |
|                              | DNEL | Long term Inhalation  | 5 mg/m <sup>3</sup>   | Workers            | Systemic |
|                              | DNEL | Long term Dermal      | 83 mg/kg bw/day       | General population | Systemic |
|                              | DNEL | Long term Dermal      | 83 mg/kg bw/day       | Workers            | Systemic |
| 4-nonylphenol, branched      | DNEL | Long term Dermal      | 1.15 mg/kg bw/day     | General population | Systemic |
|                              | DNEL | Long term Dermal      | 1.6 mg/m <sup>3</sup> | General population | Systemic |
|                              | DNEL | Long term Dermal      | 1.9 mg/kg bw/day      | Workers            | Systemic |
|                              | DNEL | Short term Inhalation | 2.7 mg/m <sup>3</sup> | Workers            | Systemic |
| benzyl alcohol               | DNEL | Long term Inhalation  | 2.7 mg/m <sup>3</sup> | Workers            | Systemic |
|                              | DNEL | Long term Oral        | 0.08 mg/kg bw/day     | General population | Systemic |
|                              | DNEL | Short term Oral       | 0.4 mg/kg bw/day      | General population | Systemic |
|                              | DNEL | Long term Inhalation  | 0.4 mg/m <sup>3</sup> | General population | Systemic |
| zinc oxide                   | DNEL | Long term Inhalation  | 0.5 mg/m <sup>3</sup> | Workers            | Systemic |
|                              | DNEL | Short term Inhalation | 0.8 mg/m <sup>3</sup> | General population | Systemic |
|                              | DNEL | Short term Inhalation | 1 mg/m <sup>3</sup>   | Workers            | Systemic |
|                              | DNEL | Long term Dermal      | 3.8 mg/kg bw/day      | General population | Systemic |
|                              | DNEL | Long term Dermal      | 7.5 mg/kg bw/day      | Workers            | Systemic |
|                              | DNEL | Short term Dermal     | 7.6 mg/kg bw/day      | General population | Systemic |
|                              | DNEL | Short term Dermal     | 15 mg/kg bw/day       | Workers            | Systemic |
|                              | DNEL | Long term Oral        | 4 mg/kg bw/day        | General population | Systemic |
|                              | DNEL | Long term Dermal      | 4 mg/kg bw/day        | General population | Systemic |
|                              | DNEL | Long term Inhalation  | 5.4 mg/m <sup>3</sup> | General population | Systemic |
|                              | DNEL | Long term Dermal      | 8 mg/kg bw/day        | Workers            | Systemic |
|                              | DNEL | Short term Oral       | 20 mg/kg bw/day       | General population | Systemic |
|                              | DNEL | Short term Dermal     | 20 mg/kg bw/day       | General population | Systemic |
|                              | DNEL | Long term Inhalation  | 22 mg/m <sup>3</sup>  | Workers            | Systemic |
|                              | DNEL | Short term Inhalation | 27 mg/m <sup>3</sup>  | General population | Systemic |
|                              | DNEL | Short term Dermal     | 40 mg/kg bw/day       | Workers            | Systemic |
|                              | DNEL | Short term Inhalation | 110 mg/m <sup>3</sup> | Workers            | Systemic |
|                              | DNEL | Long term Inhalation  | 0.5 mg/m <sup>3</sup> | Workers            | Local    |
|                              | DNEL | Long term Oral        | 0.83 mg/kg bw/day     | General population | Systemic |
|                              | DNEL | Long term Inhalation  | 2.5 mg/m <sup>3</sup> | General population | Systemic |
|                              | DNEL | Long term Inhalation  | 5 mg/m <sup>3</sup>   | Workers            | Systemic |
|                              | DNEL | Long term Dermal      | 83 mg/kg bw/day       | General population | Systemic |
|                              | DNEL | Long term Dermal      | 83 mg/kg bw/day       | Workers            | Systemic |

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## SECTION 8: Exposure controls/personal protection

| Product/ingredient name     | Type | Compartment Detail     | Value           | Method Detail            |
|-----------------------------|------|------------------------|-----------------|--------------------------|
| epoxy resin (MW ≤ 700)      | -    | Fresh water            | 0.006 mg/l      | Assessment Factors       |
|                             | -    | Marine water           | 0.001 mg/l      | Assessment Factors       |
|                             | -    | Sewage Treatment Plant | 10 mg/l         | Assessment Factors       |
| trizinc bis(orthophosphate) | -    | Fresh water sediment   | 0.996 mg/kg dwt | Equilibrium Partitioning |
|                             | -    | Marine water sediment  | 0.1 mg/kg dwt   | Equilibrium Partitioning |
|                             | -    | Fresh water            | 20.6 µg/l       | Sensitivity Distribution |
|                             | -    | Marine water           | 6.1 µg/l        | Sensitivity Distribution |
| zinc oxide                  | -    | Sewage Treatment Plant | 100 µg/l        | Assessment Factors       |
|                             | -    | Fresh water sediment   | 117.8 mg/kg dwt | Sensitivity Distribution |
|                             | -    | Marine water sediment  | 56.5 mg/kg dwt  | Equilibrium Partitioning |
|                             | -    | Soil                   | 35.6 mg/kg dwt  | Sensitivity Distribution |
|                             | -    | Fresh water            | 20.6 µg/l       | Sensitivity Distribution |
|                             | -    | Marine water           | 6.1 µg/l        | Sensitivity Distribution |
|                             | -    | Fresh water sediment   | 117 mg/kg dwt   | Sensitivity Distribution |
|                             | -    | Sewage Treatment Plant | 52 µg/l         | Assessment Factors       |
|                             | -    | Marine water sediment  | 56.5 mg/kg dwt  | Assessment Factors       |
|                             | -    | Soil                   | 35.6 mg/kg dwt  | Sensitivity Distribution |

### 8.2 Exposure controls

#### Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures

##### Hygiene measures

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

##### Eye/face protection

: Chemical splash goggles and face shield. Use eye protection according to EN 166.

##### Skin protection

##### Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

##### Gloves

: butyl rubber

##### Body protection

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

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## SECTION 8: Exposure controls/personal protection

- 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

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Grey.
- 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:  $-44.05^{\circ}\text{C}$  ( $-47.3^{\circ}\text{F}$ )
- Initial boiling point and boiling range** :  $>37.78^{\circ}\text{C}$
- Flash point** : Closed cup:  $64^{\circ}\text{C}$
- Evaporation rate** : 0.007 (benzyl alcohol) compared with butyl acetate
- Flammability (solid, gas)** : liquid
- Upper/lower flammability or explosive limits** : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
- Vapour pressure** : Highest known value: 0.01 kPa (0.1 mm Hg) (at  $20^{\circ}\text{C}$ ) (2,3-epoxypropyl neodecanoate). Weighted average: 0.005 kPa (0.04 mm Hg) (at  $20^{\circ}\text{C}$ )
- Vapour density** : Highest known value: 15.4 (Air = 1) (1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich). Weighted average: 10.89 (Air = 1)
- Relative density** : 1.51
- Solubility(ies)** : Insoluble in the following materials: cold water.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Auto-ignition temperature** : Lowest known value:  $276^{\circ}\text{C}$  ( $528.8^{\circ}\text{F}$ ) (2,3-epoxypropyl neodecanoate).
- Decomposition temperature** : Stable under recommended storage and handling conditions (see Section 7).
- Viscosity** : Kinematic ( $40^{\circ}\text{C}$ ):  $>0.21\text{ cm}^2/\text{s}$
- Viscosity** :  $> 100\text{ s}$  (ISO 6mm)
- 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.

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## SECTION 9: Physical and chemical properties

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

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

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

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

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.  
 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 phosphorus oxides halogenated compounds metal oxide/oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name      | Result                          | Species | Dose                    | Exposure |
|------------------------------|---------------------------------|---------|-------------------------|----------|
| epoxy resin (MW ≤ 700)       | LD50 Dermal                     | Rabbit  | >2 g/kg                 | -        |
|                              | LD50 Oral                       | Rat     | >2 g/kg                 | -        |
| trizinc bis(orthophosphate)  | LC50 Inhalation Dusts and mists | Rat     | >5.7 mg/l               | 4 hours  |
|                              | LD50 Oral                       | Rat     | >5000 mg/kg             | -        |
| 2,3-epoxypropyl neodecanoate | LD50 Dermal                     | Rat     | 3800 mg/kg              | -        |
|                              | LD50 Oral                       | Rat     | 9.6 g/kg                | -        |
| 4-nonylphenol, branched      | LD50 Dermal                     | Rabbit  | 2.14 g/kg               | -        |
|                              | LD50 Oral                       | Rat     | 1300 mg/kg              | -        |
| benzyl alcohol               | LC50 Inhalation Dusts and mists | Rat     | >4178 mg/m <sup>3</sup> | 4 hours  |
|                              | LD50 Dermal                     | Rabbit  | 2000 mg/kg              | -        |
|                              | LD50 Oral                       | Rat     | 1.23 g/kg               | -        |
| zinc oxide                   | LC50 Inhalation Dusts and mists | Rat     | >5700 mg/m <sup>3</sup> | 4 hours  |
|                              | LD50 Dermal                     | Rat     | >2000 mg/kg             | -        |
|                              | LD50 Oral                       | Rat     | >5000 mg/kg             | -        |

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

#### Acute toxicity estimates

| Route                        | ATE value     |
|------------------------------|---------------|
| Oral                         | 20038.9 mg/kg |
| Inhalation (dusts and mists) | 50.25 mg/l    |

#### Irritation/Corrosion

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## SECTION 11: Toxicological information

| Product/ingredient name | Result                     | Species | Score | Exposure | Observation |
|-------------------------|----------------------------|---------|-------|----------|-------------|
| epoxy resin (MW ≤ 700)  | Skin - Mild irritant       | Rabbit  | -     | -        | -           |
|                         | Eyes - Mild irritant       | Rabbit  | -     | -        | -           |
| 4-nonylphenol, branched | Skin - Erythema/<br>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

| Product/ingredient name | Route of exposure | Species | Result      |
|-------------------------|-------------------|---------|-------------|
| epoxy resin (MW ≤ 700)  | skin              | Mouse   | 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.

### Teratogenicity

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

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

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

### Potential acute health effects

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

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

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

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

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

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

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

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

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

Not available.

**Conclusion/Summary** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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

**Mutagenicity** : Suspected of causing genetic defects.

**Teratogenicity** : Suspected of damaging the unborn child.

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

**Fertility effects** : Suspected of damaging fertility.

**Other information** : 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.

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Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW ≤ 700), 2,3-epoxypropyl neodecanoate. May produce an allergic reaction.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name      | Result                  | Species                           | Exposure |
|------------------------------|-------------------------|-----------------------------------|----------|
| epoxy resin (MW ≤ 700)       | Acute LC50 1.8 mg/l     | Daphnia                           | 48 hours |
|                              | Chronic NOEC 0.3 mg/l   | Daphnia                           | 21 days  |
| trizinc bis(orthophosphate)  | Acute LC50 0.112 mg/l   | Fish                              | 96 hours |
|                              | Chronic NOEC 0.026 mg/l | Fish                              | 30 days  |
| 2,3-epoxypropyl neodecanoate | Acute EC50 3.5 mg/l     | Algae                             | 96 hours |
|                              | Acute EC50 4.8 mg/l     | Daphnia - Daphnia magna           | 48 hours |
|                              | Acute LC50 9.6 mg/l     | Fish - Oncorhynchus mykiss        | 96 hours |
| 4-nonylphenol, branched      | Acute LC50 0.221 mg/l   | Fish                              | 96 hours |
| zinc oxide                   | Acute EC50 0.17 mg/l    | Algae                             | 72 hours |
|                              | Acute EC50 0.481 mg/l   | Daphnia - Daphnia magna - Neonate | 48 hours |
|                              | Fresh water             |                                   |          |
|                              | Chronic NOEC 0.017 mg/l | Algae                             | 72 hours |
|                              | Fresh water             |                                   |          |
| Nonylphenols                 | Acute LC50 0.017 mg/l   | Fish - Pleuronectes americanus    | 96 hours |

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

### 12.2 Persistence and degradability

| Product/ingredient name | Test      | Result        | Dose | Inoculum |
|-------------------------|-----------|---------------|------|----------|
| epoxy resin (MW ≤ 700)  | OECD 301F | 5 % - 28 days | -    | -        |

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

| Product/ingredient name      | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|-------------------|------------|------------------|
| epoxy resin (MW ≤ 700)       | -                 | -          | Not readily      |
| 2,3-epoxypropyl neodecanoate | -                 | -          | Not readily      |
| benzyl alcohol               | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

| Product/ingredient name      | LogP <sub>ow</sub> | BCF    | Potential |
|------------------------------|--------------------|--------|-----------|
| epoxy resin (MW ≤ 700)       | 3                  | 31     | low       |
| 2,3-epoxypropyl neodecanoate | 4.4                | -      | high      |
| 4-nonylphenol, branched      | -                  | 251.19 | low       |
| benzyl alcohol               | 1.1                | -      | low       |

### 12.4 Mobility in soil

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

**Mobility** : Not available.

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## SECTION 12: Ecological information

### 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

|                                        | ADR/RID                                                                                                           | ADN                                                                                                               | IMDG                                                                                                              | IATA                                                                                                              |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>14.1 UN number</b>                  | UN3082                                                                                                            | UN3082                                                                                                            | UN3082                                                                                                            | UN3082                                                                                                            |
| <b>14.2 UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br><br>(epoxy resin (MW ≤ 700), trizinc bis (orthophosphate)) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br><br>(epoxy resin (MW ≤ 700), trizinc bis (orthophosphate)) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br><br>(Epoxy resin (MW ≤ 700), trizinc bis (orthophosphate)) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br><br>(Epoxy resin (MW ≤ 700), trizinc bis (orthophosphate)) |
| <b>14.3 Transport hazard class(es)</b> | 9                                                                                                                 | 9                                                                                                                 | 9                                                                                                                 | 9                                                                                                                 |
| <b>14.4 Packing group</b>              | III                                                                                                               | III                                                                                                               | III                                                                                                               | III                                                                                                               |

|                           |                                                 |
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## 14. Transport information

|                               |                 |                 |                                                        |                 |
|-------------------------------|-----------------|-----------------|--------------------------------------------------------|-----------------|
| 14.5<br>Environmental hazards | Yes.            | Yes.            | Yes.                                                   | Yes.            |
| Marine pollutant substances   | Not applicable. | Not applicable. | (Epoxy resin (MW ≤ 700), trizinc bis (orthophosphate)) | Not applicable. |

### Additional information

- ADR/RID** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- ADN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**14.6 Special precautions for user** : **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.

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Seveso Directive

This product is controlled under the Seveso Directive.

##### Danger criteria



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## SECTION 15: Regulatory information

### Category

E1

### National regulations

- Social Security Code, Articles L 461-1 to L 461-7** : epoxy resin (MW ≤ 700) RG 51  
 benzyl alcohol RG 84  
 Surveillance médicale spéciale selon l'arrêté du 11 juillet 1977:  
 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  
 PBT = Persistent, Bioaccumulative and Toxic  
 vPvB = Very Persistent and Very Bioaccumulative  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 IMDG = International Maritime Dangerous Goods  
 IATA = International Air Transport Association

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

|                                  |                                                        |
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**SECTION 16: Other information**

| <b>Classification</b>                                                                                                                                                              | <b>Justification</b>                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Repr. 2, H361fd (Fertility and Unborn child)<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

**Full text of abbreviated H statements**

|        |                                                                          |
|--------|--------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                    |
| 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.                                                      |
| H341   | Suspected of causing genetic defects.                                    |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| 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.                         |

**Full text of classifications [CLP/GHS]**

|                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Aquatic Chronic 2, H411<br>EUH071<br>Eye Dam. 1, H318<br>Eye Irrit. 2, H319<br>Muta. 2, H341<br>Repr. 2, H361fd | ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2<br>Corrosive to the respiratory tract.<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>GERM CELL MUTAGENICITY - Category 2<br>REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 2 |
| Skin Corr. 1B, H314<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317                                                                                                                                                | SKIN CORROSION/IRRITATION - Category 1B<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITISATION - Category 1                                                                                                                                                                                                                                                                                                                                                                        |

**History**

|                                        |                  |
|----------------------------------------|------------------|
| <b>Date of issue/ Date of revision</b> | : 7 October 2019 |
| <b>Date of previous issue</b>          | : 16 July 2019   |
| <b>Prepared by</b>                     | : EHS            |
| <b>Version</b>                         | : 21.02          |

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