## SAFETY DATA SHEET

Date of issue/Date of revision : 9 November 2022 Version • 1



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

1.1 Product identifier

**Product name** : NOVAGUARD 890 CONDUCTIVE BASE BLACK

: 00330780 **Product code** 

**Product description** 

**Product type** : Liquid. Other means of : Not available.

identification

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

**Product use** : Industrial applications.

Use of the substance/

mixture

: Coating.

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

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

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

Fax +32-33606435

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

**Supplier** 

+31 20 4075210

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture Classification according to UK CLP/GHS

Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F

Aquatic Chronic 2, H411

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

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

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

2.2 Label elements

**Hazard pictograms** 









Signal word : Danger

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## **SECTION 2: Hazards identification**

**Hazard statements** : Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May damage fertility.

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: Wear protective gloves, protective clothing and eye or face protection. Avoid

release to the environment.

Response : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF

INHALED: Immediately call a POISON CENTER or doctor.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

P280, P273, P391, P308 + P313, P304 + P310, P501

Supplemental label

elements

: Contains epoxy constituents. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.

**Special packaging requirements** 

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger :

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: 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**

#### Mixture

#### 3.2 Mixtures

| Product/ingredient name   | Identifiers   | %           | Classification  | Type |
|---|---|-------------|---|------|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol      | REACH #:<br>01-2119454392-40<br>EC: 500-006-8<br>CAS: 9003-36-5 | ≥25 - ≤50   | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2,<br>H411                                 | [1]  |
| 1,3-Propanediol, 2-ethyl-2-<br>(hydroxymethyl)-, polymer with 2-<br>(chloromethyl)oxirane | REACH #:<br>01-2120078341-60<br>CAS: 30499-70-8                 | ≥10 - ≤25   | Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Repr. 1B, H360F (oral) Aquatic Chronic 2, H411 | [1]  |
| Phenol, polymer with formaldehyde, glycidyl ether (MW <=700)                              | CAS: 28064-14-4   | ≥5.0 - ≤10  | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411                       | [1]  |
| benzyl alcohol  | REACH #:<br>01-2119492630-38<br>EC: 202-859-9                   | ≥1.0 - ≤5.0 | Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319  | [1]  |

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

CAS: 100-51-6 Index: 603-057-00-5 Octadecanoic acid, 12-hydroxy-, REACH #: ≤0.30 Skin Sens. 1B, H317 [1] 01-2119979085-27 reaction products with Aquatic Chronic 3, ethylenediamine EC: 309-629-8 H412 CAS: 100545-48-0 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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact : 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.

: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is Inhalation 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.

: If swallowed, seek medical advice immediately and show the container or label. Keep Ingestion

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 severe burns. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

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

pain watering redness

Inhalation : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

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#### **SECTION 4: First aid measures**

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use 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 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

halogenated compounds

Formaldehyde.

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

**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

#### **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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 6.4 Reference to other sections

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

## **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# 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

Storage temperature: 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.

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## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

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

#### **Occupational exposure limits**

No exposure limit value known.

# procedures

**Recommended monitoring**: 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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

| Product/ingredient name  | Type | Exposure              | Value                     | Population         | Effects  |
|--|------|-----------------------|---------------------------|--------------------|----------|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol     | DNEL | Long term Oral        | 6.25 mg/kg bw/day         | General population | Systemic |
|  | DNEL | Long term Inhalation  | 8.7 mg/m³                 | General population | Systemic |
|  | DNEL | Long term Inhalation  | 29.39 mg/m³               | Workers            | Systemic |
|  | DNEL | Long term Dermal      | 62.5 mg/kg bw/day         | General population |          |
|  | DNEL | Long term Dermal      | 104.15 mg/kg bw/day       | Workers            | Systemic |
|  | DMEL | Short term Dermal     | 0.0083 mg/cm <sup>2</sup> | Workers            | Local    |
| 1,3-Propanediol, 2-ethyl-2-<br>(hydroxymethyl)-, polymer<br>with 2-(chloromethyl)oxirane | DNEL | Long term Dermal      | 0.67 mg/kg bw/day         | Workers            | Systemic |
|  | DNEL | Long term Inhalation  | 1.17 mg/m³                | Workers            | Systemic |
| benzyl alcohol   | DNEL | Long term Oral        | 4 mg/kg bw/day            | General population |          |
|  | DNEL | Long term Dermal      | 4 mg/kg bw/day            | General population |          |
|  | DNEL | Long term Inhalation  | 5.4 mg/m³                 | General population |          |
|  | DNEL | Long term Dermal      | 8 mg/kg bw/day            | Workers            | Systemic |
|  | DNEL | Short term Oral       | 20 mg/kg bw/day           | General population |          |
|  | DNEL | Short term Dermal     | 20 mg/kg bw/day           | General population |          |
|  | DNEL | Long term Inhalation  | 22 mg/m³                  | Workers            | Systemic |
|  | DNEL | Short term Inhalation | 27 mg/m³                  | General population |          |
|  | DNEL | Short term Dermal     | 40 mg/kg bw/day           | Workers            | Systemic |
| 0.4. 1   | DNEL | Short term Inhalation | 110 mg/m³                 | Workers            | Systemic |
| Octadecanoic acid,   | DNEL | Long term Inhalation  | 0.055 mg/m³               | General population | Local    |
| 12-hydroxy-, reaction  |      |                       |                           |                    |          |
| products with  |      |                       |                           |                    |          |
| ethylenediamine  | DNEL | Long term Inhalation  | 0.308 mg/m³               | Workers            | Local    |

#### **PNECs**

No PNECs available

#### 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.

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

**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.

nitrile neoprene

**Body protection** 

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

Other skin protection

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

Respiratory protection

: Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Mask type: full-face mask half-face mask Filter type: organic vapour filter (Type A) particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Environmental exposure** controls

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

## **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.
Colour : Black.
Odour : Aromatic.
Odour threshold : Not available.

Melting point/freezing point

: May start to solidify at the following temperature: -15.4°C (4.3°F) This is based on data for the following ingredient: benzyl alcohol. Weighted average: -20.02°C (-4°F)

Initial boiling point and boiling range

: >37.78°C (>100°F)

Flammability (solid, gas)

rialiliability (solid, gas)

iquid

Upper/lower flammability or

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

explosive limits

Flash point

: Closed cup: 121°C (249.8°F)

Auto-ignition temperature

| Ingredient name | °C  | °F    | Method |
|-----------------|-----|-------|--------|
| benzyl alcohol  | 436 | 816.8 |        |

**Decomposition temperature**:

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

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### **SECTION 9: Physical and chemical properties**

pH : Not applicable.

Not applicable. insoluble in water.

Viscosity : Kinematic (40°C): >21 mm²/s

Solubility(ies) : Method

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

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure :

|   | Vapour Pressure at 20°C |        | ressure at 20°C Vapour pressure at |       | oour pressure at 50°C |
|---|-------------------------|--------|------------------------------------|-------|-----------------------|
| Ingredient name   | mm Hg                   | kPa    | Method                             | mm Hg | kPa                   |
| 1,3-Propanediol, 2-ethyl-2-<br>(hydroxymethyl)-, polymer with 2-<br>(chloromethyl)oxirane | 0.074256089             | 0.0099 |                                    |       |                       |

Relative density : 1.36

**Vapour density** : Highest known value: 3.7 (Air = 1) (benzyl alcohol).

**Explosive properties** : The product itself is not explosive, but the formation of an explosible mixture of

: Product does not present an oxidizing hazard.

vapour or dust with air is possible.

Oxidising properties

**Particle characteristics** 

Median particle size : Not applicable.

## **SECTION 10: Stability and reactivity**

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

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

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

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Depending on conditions, decomposition products may include the following

materials: carbon oxides halogenated compounds Formaldehyde.

## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

**Acute toxicity** 

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## **SECTION 11: Toxicological information**

| Product/ingredient name  | Result                          | Species | Dose         | Exposure |
|--|---------------------------------|---------|--------------|----------|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | LD50 Oral                       | Rat     | >10000 mg/kg | -        |
| benzyl alcohol   | LC50 Inhalation Dusts and mists | Rat     | >4178 mg/m³  | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 2000 mg/kg   | -        |
|  | LD50 Oral                       | Rat     | 1.23 g/kg    | -        |
| Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine      | LC50 Inhalation Dusts and mists | Rat     | 5.05 mg/l    | 4 hours  |
|  | LD50 Oral                       | Rat     | >2000 mg/kg  | _        |

Conclusion/Summary

: There are no data available on the mixture itself.

#### **Acute toxicity estimates**

| Product/ingredient name   | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|---|------------------|-------------------|--------------------------------|-----------------------------------|--|
| NOVAGUARD 890 CONDUCTIVE BASE BLACK benzyl alcohol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | 26190.3          | N/A               | N/A                            | N/A                               | 31.9   |
|   | 1230             | N/A               | N/A                            | N/A                               | 1.5  |
|   | N/A              | N/A               | N/A                            | N/A                               | 5.05   |

#### **Irritation/Corrosion**

Conclusion/Summary : Not available.

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      |
|--|-------------------|------------|-------------|
| Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with ethylenediamine | skin              | Guinea pig | 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.

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## **SECTION 11: Toxicological information**

#### **Aspiration hazard**

Not available.

Information on likely routes : Not available.

of exposure

Potential acute health effects

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

: No known significant effects or critical hazards. Inhalation

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

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

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

> pain watering redness

Inhalation : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact** : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

: Not available. Potential delayed effects

Long term exposure

**Potential immediate** 

: Not available.

effects

**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.

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

Reproductive toxicity : May damage fertility.

Other information : Not available.

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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

| Product/ingredient name  | Result                                     | Species   | Exposure             |
|--|--|---|----------------------|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | Acute LC50 2.54 mg/l                       | Fish  | 96 hours             |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine               | Acute EC50 >100 mg/l                       | Algae - Pseudokirchneriella subcapitata               | 72 hours             |
|  | Acute EC50 >10 mg/l<br>Acute LC50 >10 mg/l | Daphnia - Daphnia magna<br>Fish - Oncorhynchus mykiss | 48 hours<br>96 hours |

**Conclusion/Summary**: Not available.

#### 12.2 Persistence and degradability

| Product/ingredient name   | Test  | Result         | Dose | Inoculum |
|---|---|----------------|------|----------|
| Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine | 301D Ready<br>Biodegradability -<br>Closed Bottle<br>Test | 22 % - 28 days | -    | -        |

**Conclusion/Summary**: Not available.

| Product/ingredient name   | Aquatic half-life | Photolysis | Biodegradability    |
|---|-------------------|------------|---------------------|
| benzyl alcohol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | -                 | -          | Readily<br>Inherent |

#### 12.3 Bioaccumulative potential

| Product/ingredient name  | LogPow | BCF | Potential |
|--|--------|-----|-----------|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 2.7    | -   | low       |
| benzyl alcohol   | 0.87   | -   | low       |
| Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine      | >5.86  | -   | high      |

#### **12.4 Mobility in soil**

Soil/water partition coefficient (Koc)

: 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.

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## **SECTION 13: Disposal considerations**

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

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

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

#### **Hazardous waste**

Yes.

#### Waste catalogue

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

#### **Special precautions**

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

|                                  | ADR/RID         | ADN             | IMDG                          | IATA   |
|----------------------------------|-----------------|-----------------|-------------------------------|--|
| 14.1 UN number                   | UN3066          | UN3066          | UN3066                        | UN3066   |
| 14.2 UN proper shipping name     | PAINT           | PAINT           | PAINT                         | PAINT  |
| 14.3 Transport hazard class(es)  | 8               | 8               | 8                             | 8  |
| 14.4 Packing group               | III             | III             | III                           | III  |
| 14.5<br>Environmental<br>hazards | Yes.            | Yes.            | Yes.                          | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances      | Not applicable. | Not applicable. | (Epoxy Resin, Epoxy<br>Resin) | 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 : (E)

ADN : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or

≤5 kg.

**IMDG**: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

: The environmentally hazardous substance mark may appear if required by other transportation

regulations.

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### **SECTION 14: Transport information**

user

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

the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB) /REACH

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Seveso Directive** 

This product is controlled under the Seveso Directive.

**Danger criteria** 

Category

E2

#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

| Classification          | Justification      |
|-------------------------|--------------------|
| Skin Corr. 1C, H314     | Calculation method |
| Eye Dam. 1, H318        | Calculation method |
| Skin Sens. 1, H317      | Calculation method |
| Repr. 1B, H360F         | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

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### **SECTION 16: Other information**

#### 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.                                |
| H360F | May damage fertility.                              |
| H411  | Toxic to aquatic life with long lasting effects.   |
| H412  | Harmful to aquatic life with long lasting effects. |
|       |  |

#### **Full text of classifications**

| Acute Tox. 4      | ACUTE TOXICITY - Category 4                     |
|-------------------|---|
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  |
| Repr. 1B          | REPRODUCTIVE TOXICITY - Category 1B             |
| Skin Corr. 1C     | SKIN CORROSION/IRRITATION - Category 1C         |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                 |
| Skin Sens. 1B     | SKIN SENSITISATION - Category 1B                |

#### **History**

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revision

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Prepared by : EHS Version : 1

#### **Disclaimer**

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