## Safety Data Sheet according to Regulation (EC) 'No. 2020/878

















## SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

PHS PART A **Revision Date:** 05/09/2023 1.1 Product Identifier

Supersedes Date: 05/09/2023 PHS Part A Product Name:

**Version Number:** 

**UFI Code:** AQU0-C00G-600K-J6FJ

No Nanoform:

Relevant identified uses of the substance or mixture and uses

advised against

Base component of 2 components coating - Industrial use. Manual activities involving hand contact. Widespread use leading to inclusion into/onto article (indoor). For use by appropriately trained applicators. Roller application or brushing. Low energy spreading of coatings. Advised against: Home DIY applications, because of the health hazards and training required. Advised against: others than recommended

Details of the supplier of the safety data sheet 1.3

> Tremco CPG Poland Sp. z o. o. Manufacturer:

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ehs.uk@flowcrete.com **Datasheet Produced by:** 

CHEMTREC +1 703 5273887 (Outside US) 1.4 Emergency telephone number:

## **SECTION 2: Hazards Identification**

#### 2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

#### **HAZARD STATEMENTS**

| Skin Irritation, category 2                               | H315 |
|---|------|
| Skin Sensitizer, category 1                               | H317 |
| Eye Irritation, category 2                                | H319 |
| Acute Toxicity, Inhalation, category 4                    | H332 |
| Hazardous to the aquatic environment, Chronic, category 2 | H411 |

## 2.2 Label elements

## Symbol(s) of Product





#### Signal Word

Warning

#### Named Chemicals on Label

bis[4-(2,3-epoxypropoxy)phenyl]propane, 1,4-bis(2,3-epoxypropoxy)butane, Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis

#### **HAZARD STATEMENTS**

| Skin Irritation, category 2            | H315 | Causes skin irritation.                          |
|--|------|--|
| Skin Sensitizer, category 1            | H317 | May cause an allergic skin reaction.             |
| Eye Irritation, category 2             | H319 | Causes serious eye irritation.                   |
| Acute Toxicity, Inhalation, category 4 | H332 | Harmful if inhaled.                              |
| Hazardous to the aquatic environment,  | H411 | Toxic to aquatic life with long lasting effects. |
| Chronic, category 2                    |      |  |

#### PRECAUTION PHRASES

| P261         | Avoid breathing dust/fume/gas/mist/vapours/spray.   |
|--------------|---|
| P273         | Avoid release to the environment.   |
| P280         | Wear protective gloves/protective clothing/eye protection/<br>face protection.  |
| P302+352     | IF ON SKIN: Wash with plenty of soap and water.   |
| P304+340     | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                    |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |
| P333+313     | If skin irritation or rash occurs: Get medical advice/attention.  |
| P391         | Collect spillage.   |

## 2.3 Other hazards

No Information

#### Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

## Endocrine disrupting properties - Toxicity

Name According to EEC CAS-No.

No Information

Endocrine disrupting properties - Ecotoxicity

Name According to EEC CAS-No.

No Information

# **SECTION 3: Composition/Information On Ingredients**

## 3.1 Substances

Not applicable

## 3.2 Mixtures

## Hazardous ingredients

| Name According to EEC  EINEC No.  CAS-No.  REACH Reg No.   | <u>%</u> | <u>Classifications</u>   | SCL Value:<br>ATE Value:<br>M-Factor: |   |
|--|----------|--|---------------------------------------|---|
| bis[4-(2,3-epoxypropoxy)<br>phenyl]propane<br>216-823-5<br>1675-54-3<br>No Information   | 25 - <50 | H315-317-319-411  Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1   | SCL Value: ATE Value: M-Factor:       | - |
| 1,4-bis(2,3-epoxypropoxy)<br>butane<br>219-371-7<br>2425-79-8<br>01-2119494060-45  | 25 - <50 | H302-315-317-319-332-412  Acute Tox. 4 Inhalation, Acute Tox. 4 Oral, Aquatic Chronic 3, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 | SCL Value:  ATE Value:  M-Factor:     | - |
| Reaction mass of 2,2'- [methylenebis(2,1- phenyleneoxymethylene)]bis (oxirane) and 2,2'- [methylenebis 701-263-0  No Information | 10 - <25 | H315-317-411  Aquatic Chronic 2, Skin Irrit. 2, Skin Sens. 1   | SCL Value:  ATE Value:  M-Factor:     | - |

Additional Information:

The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## **SECTION 4: First-aid Measures**

#### 4.1 Description of First Aid Measures

**GENERAL NOTES:** When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes.

**AFTER INHALATION:** Move to fresh air. Consult a physician after significant exposure. Keep respiratory tract clear. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**AFTER SKIN CONTACT:** Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do NOT use solvents or thinners.

**AFTER EYE CONTACT:** Keep eye wide open while rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

#### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

No Information

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## **SECTION 5: Firefighting Measures**

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

## 5.2 Special hazards arising from the substance or mixture

No Information

## 5.3 Advice for firefighters

Keep containers and surroundings cool with water spray. Fire will produce dense black smoke containing hazardous combustion products (see section 10). In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Contains epoxy constituents. See information supplied by the manufacturer.

## **SECTION 6: Accidental Release Measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak.

#### 6.1.2 For emergency responders

See Section 7, 8 and 10 for further information.

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. May cause long-term adverse effects in the aquatic environment.

## 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Refer to protective measures listed in sections 7 and 8.

#### 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

## **SECTION 7: Handling and Storage**

## 7.1 Precautions for safe handling

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Use only in well-ventilated areas.

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.

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

**CONDITIONS TO AVOID:** Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. **STORAGE CONDITIONS:** Do not freeze. Store in original container. Store at room temperature in the original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

#### 7.3 Specific end use(s)

Component of a resin flooring product. The mixing and application to be in accordance with the technical data sheets.

## **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1 Control parameters

# Ingredients with Occupational Exposure Limits (UK WELS)

| Name  | CAS-No.   | LTEL ppm | STEL ppm | STEL mg/m3 | LTEL mg/m3 |
|---|-----------|----------|----------|------------|------------|
| bis[4-(2,3-epoxypropoxy)phenyl]propane  | 1675-54-3 |          |          |            |            |
| 1,4-bis(2,3-epoxypropoxy)butane<br>Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis | 2425-79-8 |          |          |            |            |

Name CAS-No. OEL Note

bis[4-(2,3-epoxypropoxy)phenyl]propane 1675-54-3 1,4-bis(2,3-epoxypropoxy)butane 2425-79-8

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

#### **Chemical Name:**

bis[4-(2,3-epoxypropoxy)phenyl]propane

**EC No.:** CAS-No.: 216-823-5 1675-54-3

#### DNELs - Derived no effect level

|            |              | Workers       |                |                 |              | Con           | sumers        |                 |
|------------|--------------|---------------|----------------|-----------------|--------------|---------------|---------------|-----------------|
| Route of   | Acute effect | Acute effects | Chronic        | Chronic effects | Acute effect | Acute effects | Chronic       | Chronic effects |
| Exposure   | local        | systemic      | effects local  | systemic        | local        | systemic      | effects local | systemic        |
| Oral       |              | Not required  |                |                 |              |               |               |                 |
| Inhalation |              |               |                | 4.93 mg/m3      |              |               |               |                 |
| Dermal     |              |               | 0.75 mg/kg bw/ |                 |              |               |               |                 |
|            |              |               |                | day             |              |               |               |                 |

#### PNEC's - Predicted no effect concentration

| Environmental protection target    | PNEC         |
|------------------------------------|--------------|
| Fresh water                        | 0.006 mg/l   |
| Fresh water sediments              | 0.341 mg/kg  |
| Marine water                       | 0.001mg/l    |
| Marine sediments                   | 0.0341 mg/kg |
| Food chain                         |              |
| Microorganisms in sewage treatment | 10 mg/l      |
| soil (agricultural)                | 0.065 mg/kg  |
| Air                                |              |

#### 8.2 Exposure controls

#### **Personal Protection**

RESPIRATORY PROTECTION: No personal respiratory protective equipment normally required.

**EYE PROTECTION:** Eye wash bottle with pure water. Safety glasses. Safety goggles. Safety glasses with side-shields conforming to EN 166.

**HAND PROTECTION:** Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use. Remove contaminated clothing and protective equipment before entering eating areas.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## **SECTION 9: Physical and Chemical Properties**

| Information on basic physical and chemical p Colour:          | roperties<br>Not determined |
|---|-----------------------------|
| Physical State  | No Information              |
| Odor  | No Information              |
| Odor threshold  | Not determined              |
| рН  | Not determined              |
| Melting point / freezing point (°C)                           | Not determined              |
| Boiling point or initial boiling point and boiling range (°C) | 145 - N.D.                  |
| Flash Point, (°C)   | Not measured                |
| Evaporation rate  | Not determined              |
| Flammability (solid, gas)                                     | Not determined              |
| Llower and upper explosive limit                              | 1 - 12                      |
| Vapour Pressure   | Not determined              |
| Relative vapour density                                       | Not determined              |
| Density and/or relative density                               | Not determined              |

Solubility in / Miscibility with water

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Not determined

Particle characteristics Not applicable to liquids

9.2 Other information

VOC Content g/l: <10

Specific Gravity (g/cm3) 0.120

## **SECTION 10: Stability and Reactivity**

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed. Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4 Conditions to avoid

Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat.

#### 10.5 Incompatible materials

Strong oxidizing agents. Acids and bases. Reducing agents.

#### 10.6 Hazardous decomposition products

In case of fire **hazardous decomposition products** may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Thermal decomposition can lead to release of irritating gases and vapours. Exothermic reaction.

## **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as definied in Regulation (EC) No 1272/2008

**Acute Toxicity:** 

Oral LD50: No Information
Inhalation LC50: No Information
Dermal LD50: No Information

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

**Toxicity for reproduction:** No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

| CAS-No.   | Name According to EEC  | Oral LD50         | Dermal LD50       | Vapor LC50       | Gas LC50 | Dust/Mist LC50 |
|-----------|--|-------------------|-------------------|------------------|----------|----------------|
| 2425-79-8 | 1,4-bis(2,3-epoxypropoxy) butane   | >1100 mg/kg (rat) | >2150 mg/kg (rat) | 1410 mg/kg (rat) | 0.000    | 0.000          |
|           | Reaction mass of 2,2'-<br>[methylenebis(2,1-<br>phenyleneoxymethylene)]bis<br>(oxirane) and 2,2'-<br>[methylenebis | >5000 mg/kg       | >2000 mg/kg       |                  | 0.000    | 0.000          |

#### Additional Information:

In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

## 11.2 Information on other hazards

**Endocrine disrupting properties - Toxicity** 

Name According to EEC CAS-No.

No Information

## **SECTION 12: Ecological Information**

12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

No information

No information

No information

No information

No information

No information

The state of the s

**12.4 Mobility in soil:** No information

12.5 Results of PBT and vPvB The product does not meet th

assessment:

12.3 Bioaccumulative potential:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Endocrine disrupting properties

**Endocrine disrupting properties - Ecotoxicity** 

Name According to EEC CAS-No.

No Information

No information

#### 12.7 Other adverse effects: No information

| CAS-No.   | Name According to EEC  | EC50 48hr      | IC50 72hr      | LC50 96hr |
|-----------|--|----------------|----------------|-----------|
|           |  |                |                |           |
| 1675-54-3 | bis[4-(2,3-epoxypropoxy)phenyl]propane   | No information | No information | 1.3 mg/l  |
| 2425-79-8 | 1,4-bis(2,3-epoxypropoxy)butane  | No information | No information |           |
|           | Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis | 2.55 mg/l      | 1.8 mg/l       | 5.7 mg/l  |

# **SECTION 13: Disposal Considerations**

**13.1 WASTE TREATMENT METHODS:** Dispose of as hazardous waste in compliance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.

**European Waste Code:** 080111\* Packaging Waste Code: 150110\*

# **SECTION 14: Transport Information**

|      |                               | ADR/RID   | ADN  | IMDG  | IATA  |
|------|-------------------------------|---|--|---|---|
| 14.1 | UN-number or<br>ID number     | UN3082  | UN3082   | UN3082  | UN3082  |
| 14.2 | UN proper<br>shipping name    | Environmentally<br>hazardous substance,<br>liquid, N.O.S.,(Epoxy<br>Resin MW<700) | Environmentally<br>hazardous<br>substance, liquid,<br>N.O.S.,(Epoxy<br>Resin MW<700) | Environmentally<br>hazardous substance,<br>liquid, N.O.S.,(Epoxy<br>Resin MW<700) | Environmentally hazardous substance, liquid, N.O.S., (Epoxy Resin MW<700) |
| 14.3 | Transport Hazard<br>Class(es) | 9   | 9  | 9   | 9   |
| 14.4 | Packing Group                 | III   | III  | III   | III   |
| 14.5 | Enviromental<br>Hazards       | No Information  | No Information   | No Information  | No Information  |
|      |                               |   |  |   |   |

14.6 Special precautions for user Not applicable
 EmS-No.: Not applicable
 14.7 Maritime transport in bulk according to IMO Not applicable

intruments

## **SECTION 15: Regulatory Information**

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

**National Regulations:** 

Denmark Product Registration Number: Not available

**Danish MAL Code:** 0-5 (1993)

Danish MAL Code - Mixture: Not available

Sweden Product Registration Number: Not available

Norway Product Registration Number: Not available

Germany WGK Class: Not available

Directive 2004/42/CE : <10

Covered by Directive 2012/18/EC (Seveso III): Not applicable

Restrictions to product or to substances according

to Annex XVII, Regulation (CE) 1907/2006: Not applicable

Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:

CAS-No. Name According to EEC

Not Applicable

SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):

CAS-No. Name According to EEC

Not Applicable

## 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other Information

## Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

| H302  | Harmful if swallowed.                  |
|-------|--|
| H315  | Causes skin irritation.                |
| H317  | May cause an allergic skin reaction.   |
| H319  | Causes serious eye irritation.         |
| H332  | Harmful if inhaled.                    |
| 11444 | Table to accept the solub land backing |

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

#### Reasons for revision

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Substance and/or Product Properties Changed in Section(s): 01 - Identification
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This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

#### Acronym & Abbreviation Key:

CLP Classification, Labeling & Packaging Regulation

EC European Commission
EU European Union
US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

LTEL Long term exposure limit
STEL Short term exposure limit
OEL Occupational exposure limit

ppm Parts per million

mg/m3 Milligrams per cubic meter TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits
VOC Volatile organic compounds

g/l Grams per liter

mg/kg Milligrams per kilogram

N/A Not applicable LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration
IC50 Half maximal inhibitory concentration
PBT Persistent bioaccumulative toxic chemical
vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code
IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978

IBC International Bulk Container RTI Respiratory Tract Irritation

NE Narcotic Effects

IMO International Maritime Organization

Note P: The classification as a carcinogen or mutagen need not apply; the substance

contains less than 0,1 % w/w benzene

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in

powder  $% \left( 1\right) =\left( 1\right) +\left( 1\right) +\left($ 

or incorporated in particles with aerodynamic diameter  $\leq$  10  $\mu m$ .

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general

guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.