

# SAFETY DATA SHEET

Date of issue/Date of revision

: 28 April 2025

Version

: 1.02



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

### 1.1 Product identifier

Product name : PITT-CHAR XP BASE WHITE SF

Product code : 000001116098

Other means of identification

00385969

### 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

Sigma Paint Saudi Arabia Ltd.  
PO Box 7509  
Dammam 31472  
Saudi Arabia  
Tel: 00966 138 47 31 00  
Fax: 00966 138 47 17 34

e-mail address of person  
responsible for this SDS : ndpic@sfd.a.gov.sa

1.4 Emergency telephone  
number : 00966 138473100 extn 1001

## 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 Irrit. 2, H319  
Skin Sens. 1, H317  
Repr. 2, H361d  
Aquatic Chronic 2, H411

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

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

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

### 2.2 Label elements

Hazard pictograms

:



Signal word

: Warning

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

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SECTION 2: Hazards identification

Hazard statements

: Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of damaging the unborn child.  
Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing vapour.

Response

: Collect spillage.

Storage

: Not applicable.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.  
P202, P280, P273, P261, P391, P501

Hazardous ingredients

: Hexaboron dizinc undecaoxide; Dodecanedioic acid, polymer with 2,2'-[1,4-butanediylbis (oxymethylene)]bis[oxirane], (chloromethyl)oxirane, 4,4'-(1-methylethylidene)bis[phenol], nonanedioic acid and 2,2'-oxybis[ethanol]; bis-[4-(2,3-epoxipropoxy)phenyl]propane and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

Supplemental label elements

: Contains epoxy constituents. May produce an allergic reaction.

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

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|-------------------------|-------------|---|----------------|-------------------------------------------|------|
|                         |             |   |                |                                           |      |

English (GB)

United Arab Emirates

2/15

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## SECTION 3: Composition/information on ingredients

|                                                                                                                                                                                                 |                                                                                        |            |                                                                                                                                   |                                                           |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|
| hexaboron dizinc undecaoxide                                                                                                                                                                    | REACH #:<br>01-2119691658-19<br>EC: 235-804-2<br>CAS: 12767-90-7                       | ≥10 - <25  | Eye Irrit. 2, H319<br>Repr. 2, H361d (oral)<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                                   | M [Acute] = 1                                             | [1] [2] |
| Dodecanedioic acid, polymer with 2,2'-[1,4-butanediylbis (oxymethylene)]bis [oxirane], (chloromethyl) oxirane, 4,4'-(1-methylethylidene)bis [phenol], nonanedioic acid and 2,2'-oxybis[ethanol] | CAS: 139651-91-5                                                                       | ≥10 - ≤25  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                                                                   | -                                                         | [1]     |
| Borate(5-), bis[μ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)-                                                                                                          | REACH #:<br>01-2119970312-43<br>EC: 234-521-1<br>CAS: 12046-04-7                       | ≥10 - ≤25  | Repr. 2, H361d                                                                                                                    | Repr. 2, H361d: C ≥ 4.8%                                  | [1] [2] |
| phosphorous oxychloride, reaction products with propylene oxide                                                                                                                                 | EC: 807-935-0<br>CAS: 1244733-77-4                                                     | ≥10 - <25  | Acute Tox. 4, H302<br>Aquatic Chronic 3, H412                                                                                     | ATE [Oral] = 500 mg/kg                                    | [1]     |
| bis-[4-(2,3-epoxipropoxy) phenyl]propane                                                                                                                                                        | REACH #:<br>01-2119456619-26<br>EC: 216-823-5<br>CAS: 1675-54-3<br>Index: 603-073-00-2 | ≥5.0 - ≤10 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                                        | Skin Irrit. 2, H315: C ≥ 5%<br>Eye Irrit. 2, H319: C ≥ 5% | [1]     |
| N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)                                                                                                                                           | REACH #:<br>01-2119978265-26<br>EC: 204-613-6<br>CAS: 123-26-2                         | <1.0       | Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | -                                                         | [1] [2] |

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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

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## SECTION 4: First aid measures

**Protection of first-aiders** : 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

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation. 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 or irritation  
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:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations  
**Ingestion** : Adverse symptoms may include the following:  
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  
phosphorus oxides  
halogenated compounds  
metal oxide/oxides

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## SECTION 5: Firefighting measures

### 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

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

### 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). 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 ingest. Avoid breathing vapour or mist. 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

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SECTION 7: Handling and storage

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on general occupational hygiene                           | : product residue and can be hazardous. Do not reuse container.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7.2 Conditions for safe storage, including any incompatibilities | : 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.                                                                                                                                                                                                                                                                                                    |
|                                                                  | : 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

| Product/ingredient name                                                                                                                                                                                                                                                                                                               | Exposure limit values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Hexaboron dizinc undecaoxide<br><br>Borate(5-), bis[μ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)-<br><br>glass, oxide, chemicals<br><br><br><br><br><br><br><br><br>N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | <b>ACGIH TLV (United States, 1/2013)</b><br>TWA: 3 mg/m³ (Dusts and mists). Form: Respirable fraction.<br>TWA: 10 mg/m³ (Dusts and mists). Form: .<br><b>ACGIH TLV (United States)</b><br>TWA: 10 mg/m³. Form: inhalable dust.<br>TWA: 3 mg/m³. Form: Respirable dust.<br><b>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [synthetic vitreous fibers, continuous filament glass fibers] A4.</b><br>STEL 15 minutes: 1 f/cm³. Form: respirable fibers: length > 5µm; aspect ratio > 3:1, as determined by the membrane filter method at 400-450 X magnification (4-mm objective), using phase-contrast illumination.<br>TWA 8 hours: 5 mg/m³. Form: measured as inhalable fraction of the aerosol.<br><b>ACGIH TLV (United States)</b><br>TWA: 10 mg/m³. Form: Total dust.<br>TWA: 3 mg/m³. Form: Respirable.<br>TWA: 1. Form: Continuous filament glass fibres.<br>TWA: 5 mg/m³ (Inhalable). Form: Continuous filament glass fibres.<br><b>ACGIH TLV (United States)</b><br>TWA: 10 mg/m³. Form: Total dust.<br>TWA: 3 mg/m³. Form: Respirable. |

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## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### 8.2 Exposure controls

**Appropriate engineering controls** : 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.

#### 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.

**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** :

**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.

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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                                       | : Off-white.                                                                                                                |
| Odour                                        | : Aromatic. [Strong]                                                                                                        |
| Odour threshold                              | : Not available.                                                                                                            |
| Melting point/freezing point                 | : Not determined.                                                                                                           |
| Initial boiling point and boiling range      | : >37.78°C                                                                                                                  |
| Flammability                                 | : Not determined. There are no data available on the mixture itself.                                                        |
| Upper/lower flammability or explosive limits | : Not available.                                                                                                            |
| Flash point                                  | : Closed cup: Not applicable.                                                                                               |
| Auto-ignition temperature                    | : Not available.                                                                                                            |
| Decomposition temperature                    | : Stable under recommended storage and handling conditions (see Section 7).                                                 |
| pH                                           | : Not applicable. insoluble in water.                                                                                       |
| Viscosity                                    | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C): >21 mm²/s |
| Viscosity                                    | : > 100 s (ISO 6mm)                                                                                                         |
| Solubility(ies)                              | :                                                                                                                           |

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

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

|                 |   |                                         |                         |          |        |                         |     |        |
|-----------------|---|-----------------------------------------|-------------------------|----------|--------|-------------------------|-----|--------|
| Vapour pressure | : | Ingredient name                         | Vapour Pressure at 20°C |          |        | Vapour pressure at 50°C |     |        |
|                 |   |                                         | mm Hg                   | kPa      | Method | mm Hg                   | kPa | Method |
|                 |   | bis-[4-(2,3-epoxipropoxy)phenyl]propane | <0.000075006            | <0.00001 |        |                         |     |        |

|                          |                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Relative density         | : 1.47                                                                                                                    |
| Explosive properties     | : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible. |
| Oxidising properties     | : Product does not present an oxidizing hazard.                                                                           |
| Particle characteristics |                                                                                                                           |
| Median particle size     | : Not applicable.                                                                                                         |

9.2 Other information

|                            |                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                           |
| No additional information. |                                                                                                                           |

|                            |                |                                |                 |
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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

The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.

- Causes serious eye irritation.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Suspected of damaging fertility. Suspected of damaging the unborn child.

Acute toxicity

| Product/ingredient name                                         | Result                                  | Dose / Exposure      |
|-----------------------------------------------------------------|-----------------------------------------|----------------------|
| hexaboron dizinc undecaoxide                                    | Rabbit - Dermal - LD50                  | >5000 mg/kg          |
|                                                                 | Rat - Oral - LD50                       | >5000 mg/kg          |
|                                                                 | Rat - Inhalation - LC50 Dusts and mists | >5 mg/l [4 hours]    |
| ammonium pentaborate                                            | Rabbit - Dermal - LD50                  | >2000 mg/kg          |
|                                                                 | Rat - Oral - LD50                       | 4200 mg/kg           |
| phosphorous oxychloride, reaction products with propylene oxide | Rat - Oral - LD50                       | 630 to 2000 mg/kg    |
|                                                                 | Rabbit - Dermal - LD50                  | >2000 mg/kg          |
|                                                                 | Rat - Inhalation - LC50 Dusts and mists | >7 mg/l [4 hours]    |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                         | Rabbit - Dermal - LD50                  | 23000 mg/kg          |
|                                                                 | Rat - Oral - LD50                       | 15000 mg/kg          |
| AMIDE                                                           | Rat - Oral - LD50                       | >2000 mg/kg          |
|                                                                 | Rat - Dermal - LD50                     | >2000 mg/kg          |
|                                                                 | Rat - Inhalation - LC50 Dusts and mists | >5.11 mg/l [4 hours] |

Acute toxicity estimates

| Route | ATE value     |
|-------|---------------|
| Oral  | 3963.88 mg/kg |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Irritation/Corrosion

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| Product/ingredient name                  | Result                                                                                                                                                                                                             |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| hexaboron dizinc undecaoxide             | Rabbit - Eyes - Cornea opacity<br>Amount/concentration applied: 0.083g<br>Duration of treatment/exposure: 24 hours<br>Observation period: 74 hours<br>Irritation score: 33<br>Fully reversible in more than 7 days |
| bis-[4-(2,3-epoxipropoxy)phenyl] propane | Rabbit - Eyes - Redness of the conjunctivae<br>Duration of treatment/exposure: 24 hours<br>Irritation score: 0.4                                                                                                   |
| -                                        | Rabbit - Eyes - Mild irritant<br>Duration of treatment/exposure: 24 hours<br>Fully reversible in 7 days or less                                                                                                    |
| -                                        | Rabbit - Skin - Erythema/Eschar<br>Duration of treatment/exposure: 4 hours<br>Irritation score: 0.8                                                                                                                |
| -                                        | Rabbit - Skin - Oedema<br>Duration of treatment/exposure: 4 hours<br>Irritation score: 0.5                                                                                                                         |
| -                                        | Rabbit - Skin - Mild irritant<br>Duration of treatment/exposure: 4 hours                                                                                                                                           |

#### Conclusion/Summary

**Skin** : Causes skin irritation.  
**Eyes** : Causes serious eye irritation.  
**Respiratory** : Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitization

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

#### Conclusion/Summary

**Skin** : May cause an allergic skin reaction.  
**Respiratory** : Based on available data, the classification criteria are not met.

#### Mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

| Product/ingredient name      | Test                                                            | Result                                                                                |
|------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| hexaboron dizinc undecaoxide | Rat - Oral<br>OECD 408<br>375 mg/kg [7 days per week] [90 days] | Developmental: Positive<br>Maternal toxicity: Positive<br>Fertility effects: Positive |

Suspected of damaging fertility. Suspected of damaging the unborn child.

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

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

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

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

#### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**Eye contact** : Causes serious eye irritation.

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

**Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations  
**Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations  
**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

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

##### Short term exposure

**Potential immediate effects** : No known significant effects or critical hazards.  
**Potential delayed effects** : No known significant effects or critical hazards.

##### Long term exposure

**Potential immediate effects** : No known significant effects or critical hazards.  
**Potential delayed effects** : No known significant effects or critical hazards.

#### Potential chronic health effects

**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** : No known significant effects or critical hazards.  
**Reproductive toxicity** : Suspected of damaging the unborn child.  
**Other information** : Not available.  
Sanding and grinding dusts may be harmful if inhaled.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 11.2.2 Other information

Not available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name                                                                | Result                     | Species                                        | Dose / Exposure          |
|----------------------------------------------------------------------------------------|----------------------------|------------------------------------------------|--------------------------|
| Hexaboron dizinc undecaoxide                                                           | Acute - EC50               | Daphnia - <i>Daphnia magna</i>                 | 76 mg/l [48 hours]       |
|                                                                                        | Acute - LC50               | Fish - <i>Salmo gairdneri</i>                  | 2.17 mg/l [96 hours]     |
| Borate(5-), bis[μ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)- | Acute - LC50               | Fish                                           | >100 mg/l [96 hours]     |
| phosphorous oxychloride, reaction products with propylene oxide                        | EC50                       | Algae                                          | 82 mg/l [72 hours]       |
|                                                                                        | LC50                       | Fish                                           | 51 mg/l [96 hours]       |
|                                                                                        | EC50                       | Daphnia                                        | 131 mg/l [48 hours]      |
|                                                                                        | NOEC                       | Daphnia                                        | 32 mg/l [48 hours]       |
| bis-[4-(2,3-epoxipropoxy) phenyl]propane                                               | Chronic - NOEC             | Daphnia                                        | 0.3 mg/l [21 days]       |
|                                                                                        | Acute - LC50 - Fresh water | Daphnia - <i>daphnia magna</i>                 | 1.8 mg/l [48 hours]      |
| N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)                                  | Acute - EC50               | Daphnia - <i>Daphnia magna</i>                 | 94 mg/l [48 hours]       |
|                                                                                        | Acute - EC50               | Algae - <i>Pseudokirchneriella subcapitata</i> | 29 to 43 mg/l [72 hours] |

**Conclusion/Summary** : Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

| Product/ingredient name                               | Test | Result        | Dose | Inoculum |
|-------------------------------------------------------|------|---------------|------|----------|
| N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide) | -    | 63% [28 days] |      |          |

| Product/ingredient name                               | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------------------------------------|-------------------|------------|------------------|
| bis-[4-(2,3-epoxipropoxy) phenyl]propane              | -                 | -          | Not readily      |
| N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide) | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

|                            |                |                                |                 |
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SECTION 12: Ecological information

| Product/ingredient name                                                                                                                                    | LogP <sub>ow</sub> | BCF       | Potential |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|-----------|
| Hexaboron dizinc undecaoxide<br>phosphorous oxychloride, reaction products with<br>propylene oxide<br>N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | -                  | 60960     | High      |
|                                                                                                                                                            | 2.68               | 0.8 to 14 | Low       |
|                                                                                                                                                            | >6                 | -         | High      |

12.4 Mobility in soil

Soil/water partition coefficient

| Product/ingredient name                                                                         | logK <sub>oc</sub> | K <sub>oc</sub> |
|-------------------------------------------------------------------------------------------------|--------------------|-----------------|
| Bis-[4-(2,3-epoxipropoxy)phenyl]propane<br>N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | 4.02               | 10465.7         |
|                                                                                                 | 4.31               | 20542.3         |

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 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 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<br>mixed packaging    |

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## SECTION 13: Disposal considerations

**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                                                                                                                         | IMDG                                                | IATA                                                |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| 14.1 UN number or ID number     | UN3082                                                                                                                          | UN3082                                              | UN3082                                              |
| 14.2 UN proper shipping name    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(hexaboron dizinc undecaoxide, bis-[4-(2,3-epoxipropoxy)phenyl] propane) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3 Transport hazard class(es) | 9                                                                                                                               | 9                                                   | 9                                                   |
| 14.4 Packing group              | III                                                                                                                             | III                                                 | III                                                 |
| 14.5 Environmental hazards      | Yes.                                                                                                                            | Yes.                                                | Yes.                                                |
| Marine pollutant substances     | Not applicable.                                                                                                                 | (hexaboron dizinc undecaoxide)                      | 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.

**Tunnel code** : (-)

**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 IMO instruments** : 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

None of the components are listed.

|                            |                |                                |                 |
|----------------------------|----------------|--------------------------------|-----------------|
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SECTION 15: Regulatory information

|                                                                                                                                    |                                                       |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicable.                                     |
| Other national and international regulations.                                                                                      |                                                       |
| Explosive precursors                                                                                                               | : Not applicable.                                     |
| Ozone depleting substances (EU 2024/590)                                                                                           |                                                       |
| Not listed.                                                                                                                        |                                                       |
| 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<br>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]<br>DNEL = Derived No Effect Level<br>EUH statement = CLP-specific Hazard statement<br>PNEC = Predicted No Effect Concentration<br>RRN = REACH Registration Number                                                                                                                                                                                                                                 |
| Full text of abbreviated H statements                                  | : H302 Harmful if swallowed.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H361d Suspected of damaging the unborn child.<br>H400 Very toxic to aquatic life.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects.                                                                                                                                                                     |
| Full text of classifications [CLP/GHS]                                 | : Acute Tox. 4 ACUTE TOXICITY - Category 4<br>Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1<br>Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2<br>Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3<br>Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>Repr. 2 REPRODUCTIVE TOXICITY - Category 2<br>Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2<br>Skin Sens. 1 SKIN SENSITISATION - Category 1<br>Skin Sens. 1B SKIN SENSITISATION - Category 1B |
| History                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Date of issue/ Date of revision                                        | : 28 April 2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Date of previous issue                                                 | : 29 May 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Prepared by                                                            | : EHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Version                                                                | : 1.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Disclaimer**

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