# SAFETY DATA SHEET
# X-PRO 500 PART A

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

### 1.1. Product identifier

**Product name** X-PRO 500 PART A

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

**Identified uses** Two component epoxy based adhesive. Resin.

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

**Supplier**

PROFAST Ankersystemen B.V.B.A.
P.O. Box 27
3900 Overpelt
België
Tel: +32 (0) 34 56 27 00
www.profastankersystemen.be
info@profastankersystemen.be

### 1.4. Emergency telephone number

**Emergency telephone** +32 (0) 34 56 27 00 (08:00 - 18:00)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 2 - H411

### 2.2. Label elements

**Pictogram**

**Signal word** Warning

**Hazard statements**

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.

# X-PRO 500 PART A

**Contains** EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN, REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)

**Supplementary precautionary statements**
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**EPOXY RESIN (Number average MW <= 700 )** **20-50%**

CAS number: 25068-38-6 | EC number: 500-033-5 | REACH registration number: 01-2119456619-26

**Classification**
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

**EPOXY PHENOL FORMALDEHYDE RESIN** **10-20%**

CAS number: 9003-36-5 | EC number: 500-006-8 | REACH registration number: 01-2119454392-40

**Classification**
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

**REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)** **5-10%**

CAS number: 933999-84-9 | EC number: 618-939-5 | REACH registration number: 01-2119463471-41

**Classification**
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1A - H317
Aquatic Chronic 3 - H412

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments** CAS 9003-36-5 = CAS 20864-14-4 (RoW) CAS 933999-84-9 = CAS 16096-31-4 (RoW)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

# X-PRO 500 PART A

| | |
|---|---|
| **Inhalation** | Remove affected person from source of contamination. Get medical attention if any discomfort continues. |
| **Ingestion** | DO NOT induce vomiting. Get medical attention immediately. |
| **Skin contact** | Remove contaminated clothing immediately and wash skin with soap and water. |
| **Eye contact** | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel. |

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

| | |
|---|---|
| **Inhalation** | May cause respiratory irritation. |
| **Ingestion** | May cause stomach pain or vomiting. |
| **Skin contact** | Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May cause sensitisation by skin contact. |
| **Eye contact** | Irritating to eyes. |

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

| | |
|---|---|
| **Notes for the doctor** | No specific recommendations. If in doubt, get medical attention promptly. |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

| | |
|---|---|
| **Suitable extinguishing media** | Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. |
| **Unsuitable extinguishing media** | DO NOT use water if avoidable. |

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

| | |
|---|---|
| **Specific hazards** | No unusual fire or explosion hazards noted. |
| **Hazardous combustion products** | Oxides of carbon. Oxides of nitrogen. |

### 5.3. Advice for firefighters

| | |
|---|---|
| **Protective actions during firefighting** | No specific firefighting precautions known. |
| **Special protective equipment for firefighters** | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |

## SECTION 6: Accidental release measures

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

| | |
|---|---|
| **Personal precautions** | Wear protective clothing as described in Section 8 of this safety data sheet. |

### 6.2. Environmental precautions

| | |
|---|---|
| **Environmental precautions** | Avoid release to the environment. |

### 6.3. Methods and material for containment and cleaning up

| | |
|---|---|
| **Methods for cleaning up** | Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. |

### 6.4. Reference to other sections

# X-PRO 500 PART A

**Reference to other sections** For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with eyes. Avoid contact with skin.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

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

**Storage precautions** Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)

**DNEL**

Industry - Inhalation; Long term systemic effects: 12.25 mg/m³
Industry - Inhalation; Short term systemic effects: 12.25 mg/m³
Industry - Dermal; Long term systemic effects: 8.33 mg/kg/day
Industry - Dermal; Short term systemic effects: 8.33 mg/kg/day
REACH dossier information

**PNEC**

- Fresh water; 0.006 mg/l
- Marine water; 0.0006 mg/l
- Intermittent release; 0.018 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 0.996 mg/kg
- Sediment (Marinewater); 0.0996 mg/kg
- Soil; 0.196 mg/kg

REACH dossier information

#### REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2) (CAS: 933999-84-9)

**DNEL**

Industry - Inhalation; Long term systemic effects: 4.9 mg/m³
Industry - Inhalation; Short term systemic effects: 4.9 mg/m³
Industry - Inhalation; Long term local effects: 0.44 mg/m³
Industry - Dermal; Long term systemic effects: 2.8 mg/kg/day
Industry - Dermal; Long term local effects: 22.6 µg/cm²
Industry - Dermal; Short term local effects: 22.6 µg/cm²
REACH dossier information

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| | |
|---|---|
| **PNEC** | - Fresh water; 0.0115 mg/l<br>- Marine water; 0.00115 mg/l<br>- Intermittent release; 0.115 mg/l<br>- STP; 1 mg/l<br>- Sediment (Freshwater); 0.283 mg/kg<br>- Sediment (Marinewater); 0.0283 mg/kg<br>- Soil; 0.223 mg/kg<br>REACH dossier information |

## 8.2. Exposure controls

**Protective equipment**

| | |
|---|---|
| **Appropriate engineering controls** | No specific ventilation requirements. |
| **Eye/face protection** | Wear eye protection. |
| **Hand protection** | Wear protective gloves made of the following material: Nitrile rubber. |
| **Hygiene measures** | Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. |
| **Respiratory protection** | Not relevant. |
| **Environmental exposure controls** | Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. |

## SECTION 9: Physical and Chemical Properties

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

| | |
|---|---|
| **Appearance** | Liquid |
| **Colour** | White/off-white. |
| **Odour** | Characteristic. |
| **Odour threshold** | Not determined. |
| **pH** | Not applicable. |
| **Melting point** | Not applicable. |
| **Initial boiling point and range** | >35°C @ 760 mm Hg |
| **Flash point** | >100°C Closed cup. Literature |
| **Evaporation rate** | No information available. |
| **Evaporation factor** | Not applicable. |
| **Flammability (solid, gas)** | Not applicable. |
| **Upper/lower flammability or explosive limits** | Not applicable. |
| **Other flammability** | Not available. |
| **Vapour pressure** | <500 Pa @ °C |

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| | |
|---|---|
| **Vapour density** | No information available. |
| **Relative density** | 1.5 - 1.6 |
| **Bulk density** | Not applicable. |
| **Solubility(ies)** | Insoluble in water |
| **Partition coefficient** | Not determined. |
| **Auto-ignition temperature** | Not determined. |
| **Decomposition Temperature** | Not determined. |
| **Viscosity** | > 60 S ISO2431 |
| **Explosive properties** | No information available. |
| **Explosive under the influence of a flame** | No |
| **Oxidising properties** | Does not meet the criteria for classification as oxidising. |

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with acids and alkalis.

### 10.5. Incompatible materials

**Materials to avoid** Acids. Amines. Amides.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Skin sensitisation**

**Skin sensitisation** Sensitising.

| | |
|---|---|
| **General information** | Contains epoxy constituents. May produce an allergic reaction. |
| **Inhalation** | No specific health hazards known. |
| **Ingestion** | No harmful effects expected from quantities likely to be ingested by accident. |
| **Skin contact** | Irritating to skin. May cause sensitisation by skin contact. |
| **Eye contact** | May cause severe eye irritation. |

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| | |
|---|---|
| **Acute and chronic health hazards** | Irritating to skin. Irritating to eyes. |
| **Route of exposure** | Skin and/or eye contact. |
| **Medical symptoms** | Skin irritation. |
| **Medical considerations** | Skin disorders and allergies. |

**Toxicological information on ingredients.**

**EPOXY RESIN (Number average MW <= 700 )**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 11,400.0 |
| **Species** | Rat |

**Acute toxicity - dermal**

| | |
|---|---|
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 1,200.0 |
| **Species** | Rat |

**REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 3,010.0 |
| **Species** | Rat |

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Ecological information on ingredients.**

**EPOXY RESIN (Number average MW <= 700 )**

**Acute aquatic toxicity**

| | |
|---|---|
| **Acute toxicity - fish** | LC50, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 1.8 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | $EC_{50}$, 72 hours: 11 mg/l, Freshwater algae<br>$EC_{50}$, 96 hours: 220 mg/l, Scenedesmus subspicatus |

**Chronic aquatic toxicity**

| | |
|---|---|
| **Chronic toxicity - aquatic invertebrates** | NOEC, 21 days: 0.3 mg/l, Daphnia magna |

**REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)**

**Acute aquatic toxicity**

| | |
|---|---|
| **Acute toxicity - fish** | LC50, 96 hours: 30 mg/l, Oncorhynchus mykiss (Rainbow trout) |

### 12.2. Persistence and degradability

**Persistence and degradability** The product is not biodegradable.

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**Ecological information on ingredients.**

**EPOXY RESIN (Number average MW <= 700 )**

| | |
|---|---|
| **Biodegradation** | - 12% Degradation (%): 28 days |

**REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)**

| | |
|---|---|
| **Biodegradation** | - 47% Degradation (%): 28 days<br>OECD 301D |

## 12.3. Bioaccumulative potential

| | |
|---|---|
| **Bioaccumulative potential** | No data available on bioaccumulation. |
| **Partition coefficient** | Not determined. |

**Ecological information on ingredients.**

**EPOXY RESIN (Number average MW <= 700 )**

| | |
|---|---|
| **Bioaccumulative potential** | May accumulate in soil and water systems. BCF: 100 - 3000, |
| **Partition coefficient** | log Pow: 3.242 Estimated Value |

**REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)**

| | |
|---|---|
| **Bioaccumulative potential** | BCF: < 100, Estimated Value |
| **Partition coefficient** | log Pow: -0.272 Estimated Value |

## 12.4. Mobility in soil

| | |
|---|---|
| **Mobility** | The product is insoluble in water and will spread on the water surface. The product is non-volatile. Semi-mobile. |

**Ecological information on ingredients.**

**EPOXY RESIN (Number average MW <= 700 )**

| | |
|---|---|
| **Mobility** | Semi-mobile. |
| **Adsorption/desorption coefficient** | Water - Koc: 1800 - 4400 @ 25°C Estimated Value |
| **Henry's law constant** | 4.93E-05 Pa m3/mol @ 25°C |

## 12.5. Results of PBT and vPvB assessment

| | |
|---|---|
| **Results of PBT and vPvB assessment** | This product does not contain any substances classified as PBT or vPvB. |

**Ecological information on ingredients.**

**EPOXY RESIN (Number average MW <= 700 )**

| | |
|---|---|
| **Results of PBT and vPvB assessment** | This substance is not classified as PBT or vPvB according to current EU criteria. |

## 12.6. Other adverse effects

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

# X-PRO 500 PART A

| | |
|---|---|
| **Disposal methods** | Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Dispose of waste via a licensed waste disposal contractor. |
| **Waste class** | The waste code classification is to be carried out according to the European Waste Catalogue (EWC). |

## SECTION 14: Transport information

### 14.1. UN number

| | |
|---|---|
| **UN No. (ADR/RID)** | 3082 |
| **UN No. (IMDG)** | 3082 |
| **UN No. (ICAO)** | 3082 |
| **UN No. (ADN)** | 3082 |

### 14.2. UN proper shipping name

| | |
|---|---|
| **Proper shipping name (ADR/RID)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN) |
| **Proper shipping name (IMDG)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN) |
| **Proper shipping name (ICAO)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN) |
| **Proper shipping name (ADN)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN) |

### 14.3. Transport hazard class(es)

| | |
|---|---|
| **ADR/RID class** | 9 |
| **ADR/RID classification code** | M6 |
| **ADR/RID label** | 9 |
| **IMDG class** | 9 |
| **ICAO class/division** | 9 |
| **ADN class** | 9 |

**Transport labels**


### 14.4. Packing group

| | |
|---|---|
| **ADR/RID packing group** | III |
| **IMDG packing group** | III |
| **ADN packing group** | III |
| **ICAO packing group** | III |

### 14.5. Environmental hazards

# X-PRO 500 PART A

**Environmentally hazardous substance/marine pollutant**

## 14.6. Special precautions for user

| | |
|---|---|
| **EmS** | F-A, S-F |
| **ADR transport category** | 3 |
| **Emergency Action Code** | •3Z |
| **Hazard Identification Number (ADR/RID)** | 90 |
| **Tunnel restriction code** | (E) |

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

| | |
|---|---|
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not applicable. |

## SECTION 15: Regulatory information

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

| | |
|---|---|
| **EU legislation** | (EU) No 2015/830 |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

| | |
|---|---|
| **Revision comments** | This is first issue. NOTE: Lines within the margin indicate significant changes from the previous revision. |
| **Revision date** | 27/11/2017 |
| **Version number** | 1.000 |
| **SDS number** | 20894 |
| **Hazard statements in full** | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects. |

# SAFETY DATA SHEET
# X-PRO 500 PART B

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

### 1.1. Product identifier

**Product name** X-PRO 500 PART B

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

**Identified uses** Two component epoxy based adhesive. Hardener.

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

**Supplier**

PROFAST Ankersystemen B.V.B.A.
P.O. Box 27
3900 Overpelt
België
Tel: +32 (0) 34 56 27 00
www.profastankersystemen.be
info@profastankersystemen.be

### 1.4. Emergency telephone number

**Emergency telephone** +32 (0) 34 56 27 00 (08:00 - 18:00)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H302 Skin Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 3 - H412

**Classification (67/548/EEC or 1999/45/EC)** -

**Human health** Corrosive. Prolonged contact causes serious eye and tissue damage.

**Environmental** The product contains a substance which may have hazardous effects on the environment.

### 2.2. Label elements

**Pictogram**

**Signal word** Danger

**Hazard statements**

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

# X-PRO 500 PART B

| | |
|---|---|
| **Precautionary statements** | P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P501 Dispose of contents/ container in accordance with national regulations. |
| **Contains** | 1,3-CYCLOHEXANEBIS(METHYLAMINE), STYRENATED PHENOL, SALICYLIC ACID, 1,3-BENZENEDIMETHANAMINE |
| **Supplementary precautionary statements** | P264 Wash contaminated skin thoroughly after handling.<br>P260 Do not breathe vapours.<br>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.<br>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse. |

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**1,3-CYCLOHEXANEBIS(METHYLAMINE)** **20-50%**

CAS number: 2579-20-6 | EC number: 219-941-5 | REACH registration number: 01-2119543741-41

**Classification**
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Corr. 1A - H314
Aquatic Chronic 3 - H412

**STYRENATED PHENOL** **5-10%**

CAS number: 61788-44-1 | EC number: 262-975-0 | REACH registration number: 01-2119979575-18

**Classification**
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1A - H317
Aquatic Chronic 2 - H411

**SALICYLIC ACID** **5-10%**

CAS number: 69-72-7 | EC number: 200-712-3 | REACH registration number: 01-2119486984-17

**Classification**
Acute Tox. 4 - H302
Eye Dam. 1 - H318

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| 1,3-BENZENEDIMETHANAMINE | | 1-5% |
|---|---|---|
| CAS number: 1477-55-0 | EC number: 216-032-5 | REACH registration number: 01-2119480150-50 |

**Classification**
Acute Tox. 4 - H302
Acute Tox. 4 - H332
Skin Corr. 1B - H314
Skin Sens. 1B - H317
Aquatic Chronic 3 - H412

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Remove affected person from source of contamination. Get medical attention if any discomfort continues.

**Ingestion** DO NOT induce vomiting. Get medical attention immediately.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

**Inhalation** Irritation of nose, throat and airway.

**Ingestion** May cause stomach pain or vomiting.

**Skin contact** Burning pain and severe corrosive skin damage. Blistering may occur. Chemical burns.

**Eye contact** May cause blurred vision and serious eye damage.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** DO NOT use water if avoidable.

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

**Specific hazards** No unusual fire or explosion hazards noted.

**Hazardous combustion products** Oxides of carbon. Oxides of nitrogen.

### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

# X-PRO 500 PART B

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Collect and dispose of spillage as indicated in Section 13. Contain spillage with sand, earth or other suitable non-combustible material. Avoid discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin. Avoid contact with eyes. Do not empty into drains.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

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

**Storage precautions** Keep away from food and drink. Keep container closed when not in use.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits**

**1,3-CYCLOHEXANEBIS(METHYLAMINE)**

Long-term exposure limit (8-hour TWA): WEL 0.1 ppm(Sk) 0.8 mg/m3(Sk)

Sk

WEL = Workplace Exposure Limit
Sk = Can be absorbed through skin.

**1,3-CYCLOHEXANEBIS(METHYLAMINE) (CAS: 2579-20-6)**

**DNEL**

REACH dossier information
Industry - Inhalation; Long term systemic effects: 0.71 mg/m³
Industry - Dermal; Long term systemic effects: 0.2 mg/kg/day
Industry - Inhalation; Short term systemic effects: 21.2 mg/m³
Industry - Dermal; Short term systemic effects: 6 mg/kg/day

# X-PRO 500 PART B

**PNEC**

REACH dossier information
- Fresh water; 0.0331 mg/l
- STP; 10 mg/l
- Marine water; 0.00331 mg/l
- Intermittent release; 0.331 mg/l

**STYRENATED PHENOL (CAS: 61788-44-1)**

**DNEL**

REACH dossier information
Industry - Dermal; Long term systemic effects: 0.416666667 mg/kg/day
Industry - Inhalation; Long term systemic effects: 0.734649123 mg/m³

**PNEC**

REACH dossier information
- Intermittent release; 0.01371 mg/l
- Marine water; 0.0001371 mg/l
- STP; 1.0638 mg/l
- Sediment (Freshwater); 43.65269484 mg/kg
- Fresh water; 0.001371 mg/l
- Soil; 20.64517608 mg/kg
- Sediment (Marinewater); 43.65269484 mg/kg

**SALICYLIC ACID (CAS: 69-72-7)**

**DNEL**

REACH dossier information
Industry - Inhalation; Long term systemic effects: 16 mg/m³
Industry - Dermal; Long term systemic effects: 2 mg/kg/day

**PNEC**

REACH dossier information
- Intermittent release; 1 mg/l
- Marine water; 0.02 mg/l
- Sediment (Freshwater); 1.42 mg/kg
- Fresh water; 0.2 mg/l
- Sediment (Marinewater); 0.142 mg/kg
- Soil; 0.166 mg/kg
- STP; 162 mg/l

**1,3-BENZENEDIMETHANAMINE (CAS: 1477-55-0)**

**PNEC**

- Sediment (Freshwater); 0.43 mg/kg
- Soil; 0.045 mg/kg
- Intermittent release; 0.152 mg/l
- Fresh water; 0.094 mg/l
- Marine water; 0.0094 mg/l
- Sediment (Marinewater); 0.043 mg/kg
- STP; 10 mg/l

## 8.2. Exposure controls

**Protective equipment**

**Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

# X-PRO 500 PART B

| | |
|---|---|
| **Eye/face protection** | The following protection should be worn: Tight-fitting safety glasses. Contact lenses should not be worn when working with this chemical. |
| **Hand protection** | Wear protective gloves made of the following material: Nitrile rubber. |
| **Other skin and body protection** | Avoid contact with skin. Wear appropriate clothing to prevent repeated or prolonged skin contact. |
| **Hygiene measures** | Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Use engineering controls to reduce air contamination to permissible exposure level. |
| **Respiratory protection** | If ventilation is inadequate, suitable respiratory protection must be worn. |
| **Environmental exposure controls** | Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. |

## SECTION 9: Physical and Chemical Properties

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

| | |
|---|---|
| **Appearance** | Liquid |
| **Colour** | Pink. |
| **Odour** | Characteristic. Amine. |
| **Odour threshold** | Not determined. |
| **pH** | Not applicable. |
| **Melting point** | Not determined. |
| **Initial boiling point and range** | Not determined. |
| **Flash point** | >100°C Closed cup. Literature |
| **Evaporation rate** | Not determined. |
| **Evaporation factor** | Not determined. |
| **Flammability (solid, gas)** | Not determined. |
| **Upper/lower flammability or explosive limits** | Not determined. |
| **Other flammability** | Not applicable. |
| **Vapour pressure** | Not determined. |
| **Vapour density** | Not determined. |
| **Relative density** | 1.4 - 1.5 |
| **Bulk density** | Not available. |
| **Solubility(ies)** | Not determined. |
| **Partition coefficient** | Not determined. |
| **Auto-ignition temperature** | Not determined. |
| **Decomposition Temperature** | Not determined. |
| **Viscosity** | Not determined. |
| **Explosive properties** | No information available. |

# X-PRO 500 PART B

| | |
|---|---|
| **Explosive under the influence of a flame** | Not considered to be explosive. |
| **Oxidising properties** | Does not meet the criteria for classification as oxidising. |

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

| | |
|---|---|
| **Reactivity** | The following materials may react with the product: Acids. Epoxides. Oxidising agents. Peroxides. |

### 10.2. Chemical stability

| | |
|---|---|
| **Stability** | Stable at normal ambient temperatures and when used as recommended. |

### 10.3. Possibility of hazardous reactions

| | |
|---|---|
| **Possibility of hazardous reactions** | The following materials may react with the product: Acids. Epoxides. Oxidising agents. Peroxides. |

### 10.4. Conditions to avoid

| | |
|---|---|
| **Conditions to avoid** | Stable.  However, may decompose if heated. |

### 10.5. Incompatible materials

| | |
|---|---|
| **Materials to avoid** | Acids. Epoxides. Oxidising agents. Peroxides. |

### 10.6. Hazardous decomposition products

| | |
|---|---|
| **Hazardous decomposition products** | Oxides of carbon. Oxides of nitrogen. |

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity - oral**

| | |
|---|---|
| **ATE oral (mg/kg)** | 1,269.11 |

**Acute toxicity - dermal**

| | |
|---|---|
| **ATE dermal (mg/kg)** | 3,298.57 |

**Acute toxicity - inhalation**

| | |
|---|---|
| **ATE inhalation (dusts/mists mg/l)** | 59.38 |

**Skin sensitisation**

| | |
|---|---|
| **Skin sensitisation** | Sensitising. |

| | |
|---|---|
| **Inhalation** | Vapour may irritate respiratory system/lungs. |
| **Ingestion** | May cause stomach pain or vomiting. |
| **Skin contact** | May cause sensitisation by skin contact. May cause serious chemical burns to the skin. |
| **Eye contact** | Risk of serious damage to eyes. May cause chemical eye burns. |
| **Acute and chronic health hazards** | May cause sensitisation by skin contact. Causes severe burns. |
| **Route of exposure** | Skin and/or eye contact Inhalation |

# X-PRO 500 PART B

| | |
|---|---|
| **Target organs** | No specific target organs known. |
| **Medical symptoms** | Symptoms following overexposure may include the following: Chemical burns. |
| **Medical considerations** | Splash in eye requires examination by eye specialist. |

**Toxicological information on ingredients.**

**1,3-CYCLOHEXANEBIS(METHYLAMINE)**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 700.0 |
| **Species** | Rat |

**Acute toxicity - dermal**

| | |
|---|---|
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 1,700.0 |
| **Species** | Rabbit |

**STYRENATED PHENOL**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 2,000.0 |
| **Species** | Rat |

**Acute toxicity - dermal**

| | |
|---|---|
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 2,000.0 |
| **Species** | Rat |

**SALICYLIC ACID**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 891.0 |
| **Species** | Rat |

**Acute toxicity - dermal**

| | |
|---|---|
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 2,000.0 |
| **Species** | Rat |

**1,3-BENZENEDIMETHANAMINE**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 1,090.0 |
| **Species** | Rat |
| **ATE oral (mg/kg)** | 1,090.0 |

# X-PRO 500 PART B

| | |
|---|---|
| **Acute toxicity - dermal** | |
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 2,000.0 |
| **Species** | Rat |
| **Acute toxicity - inhalation** | |
| **Acute toxicity inhalation ($LC_{50}$ dust/mist mg/l)** | 1.34 |
| **Species** | Rat |
| **ATE inhalation (dusts/mists mg/l)** | 1.34 |

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Ecological information on ingredients.**

**1,3-CYCLOHEXANEBIS(METHYLAMINE)**

| | |
|---|---|
| **Acute aquatic toxicity** | |
| **Acute toxicity - fish** | LC50, > 96 hours: 100 mg/l, Leuciscus idus (Golden orfe) |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 29 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | $EC_{50}$, > 96 hours: 100 mg/l, Scenedesmus subspicatus |
| **Acute toxicity - terrestrial** | $EC_{50}$, > 14 days: 1000 mg/kg, Eisenia Fetida (Earthworm) |

**STYRENATED PHENOL**

| | |
|---|---|
| **Acute aquatic toxicity** | |
| **Acute toxicity - fish** | LC50, 96 hours: 14.8 mg/l, |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 1-10 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | $EC_{50}$, 72 hours: 3.14 mg/l, Scenedesmus subspicatus |
| **Chronic aquatic toxicity** | |
| **NOEC** | $0.01 < NOEC \leq 0.1$ |

**SALICYLIC ACID**

| | |
|---|---|
| **Acute aquatic toxicity** | |
| **Acute toxicity - fish** | LC50, 48 hours: 90 mg/l, Leuciscus idus (Golden orfe) |
| **Acute toxicity - microorganisms** | $EC_{50}$, > 3 hours: 3200 mg/l, Activated sludge |

**1,3-BENZENEDIMETHANAMINE**

| | |
|---|---|
| **Acute aquatic toxicity** | |
| **Acute toxicity - fish** | LC50, 96 hours: 75 mg/l, Leuciscus idus (Golden orfe) |

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| | |
|---|---|
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 15.2 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | $EC_{50}$, 72 hours: 12 mg/l, Scenedesmus subspicatus |

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### 12.4. Mobility in soil

**Mobility** Mobile. The product is miscible with water and may spread in water systems.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

**Waste class** The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 2735

**UN No. (IMDG)** 2735

**UN No. (ICAO)** 2735

**UN No. (ADN)** 2735

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,3-CYCLOHEXANEBIS(METHYLAMINE), 1,3-BENZENEDIMETHANAMINE)

**Proper shipping name (IMDG)** AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,3-CYCLOHEXANEBIS(METHYLAMINE), 1,3-BENZENEDIMETHANAMINE)

**Proper shipping name (ICAO)** AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,3-CYCLOHEXANEBIS(METHYLAMINE), 1,3-BENZENEDIMETHANAMINE)

**Proper shipping name (ADN)** AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,3-CYCLOHEXANEBIS(METHYLAMINE), 1,3-BENZENEDIMETHANAMINE)

### 14.3. Transport hazard class(es)

**ADR/RID class** 8

# X-PRO 500 PART B

| | |
|---|---|
| **ADR/RID classification code** | C7 |
| **ADR/RID label** | 8 |
| **IMDG class** | 8 |
| **ICAO class/division** | 8 |
| **ADN class** | 8 |

**Transport labels**


## 14.4. Packing group

| | |
|---|---|
| **ADR/RID packing group** | II |
| **IMDG packing group** | II |
| **ADN packing group** | II |
| **ICAO packing group** | II |

## 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**
No.

## 14.6. Special precautions for user

| | |
|---|---|
| **EmS** | F-A, S-B |
| **ADR transport category** | 2 |
| **Emergency Action Code** | 2X |
| **Hazard Identification Number (ADR/RID)** | 88 |
| **Tunnel restriction code** | (E) |

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

| | |
|---|---|
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not applicable. |

## SECTION 15: Regulatory information

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

| | |
|---|---|
| **EU legislation** | (EU) No 2015/830 |

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

| | |
|---|---|
| **Revision comments** | This is first issue. NOTE: Lines within the margin indicate significant changes from the previous revision. |
| **Revision date** | 27/11/2017 |
| **Version number** | 1.000 |

# X-PRO 500 PART B

**SDS number** 20896

**Hazard statements in full**

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.