

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name: RX700K-1/BK

Synonyms: EHC: 28611000000793

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

Use of substance / mixture: PC1: Adhesives, sealants.

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

Company name: Robnor ResinLab Ltd

31 Athena Avenue

Elgin Industrial Estate

Swindon

Wiltshire

SN2 8EJ

United Kingdom

Tel: +44(0) 1793 823741

Fax: +44(0) 1793 827033

Email: [eusds@robnor.co.uk](mailto:eusds@robnor.co.uk)**1.4. Emergency telephone number**

Emergency tel: +44(0) 1793 823741

(office hours only)

**Section 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification under CLP: Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Muta. 2: H341; Aquatic Chronic 3: H412; -: EUH205

Most important adverse effects: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing genetic defects ([kidneys][liver][bone marrow]). Harmful to aquatic life with long lasting effects. Contains epoxy constituents. May produce an allergic reaction.

**2.2. Label elements**

Label elements:

Hazard statements: H315: Causes skin irritation.

H319: Causes serious eye irritation.

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H317: May cause an allergic skin reaction.

H341: Suspected of causing genetic defects ([kidneys][liver][bone marrow]).

H412: Harmful to aquatic life with long lasting effects.

EUH205: Contains epoxy constituents. May produce an allergic reaction.

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard



Signal words: Warning

Precautionary statements: P201: Obtain special instructions before use.

P261: Avoid breathing mist.

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.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P273: Avoid release to the environment.

## 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

Hazardous ingredients:

#### ALUMINIUM HYDROXIDE

| EINECS    | CAS        | PBT / WEL  | CLP Classification | Percent |
|-----------|------------|--|--------------------|---------|
| 244-492-7 | 21645-51-2 | Substance with a Community workplace exposure limit. | -                  | 50-70%  |

BISPHENOL A EPOXY RESIN (MW <700) - REACH registered number(s): 01-2119456619-26-XXXX

|           |            |   |  |        |
|-----------|------------|---|--|--------|
| 500-033-5 | 25068-38-6 | - | Skin Irrit. 2: H315; Eye Irrit. 2: H319;<br>Skin Sens. 1: H317; Aquatic Chronic 2:<br>H411 | 10-30% |
|-----------|------------|---|--|--------|

GLYCIDYL NEODECANOATE - REACH registered number(s): 01-2119431597-33-XXXX

|           |            |   |   |       |
|-----------|------------|---|---|-------|
| 247-979-2 | 26761-45-5 | - | Skin Sens. 1: H317; Muta. 2: H341;<br>Aquatic Chronic 2: H411 | 1-10% |
|-----------|------------|---|---|-------|

[cont...]

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## DIISONONYL PHTHALATE

|           |            |  |   |       |
|-----------|------------|--|---|-------|
| 249-079-5 | 28553-12-0 | Substance with a Community workplace exposure limit. | - | 1-10% |
|-----------|------------|--|---|-------|

## KAOLIN

|           |           |  |   |       |
|-----------|-----------|--|---|-------|
| 310-194-1 | 1332-58-7 | Substance with a Community workplace exposure limit. | - | 1-10% |
|-----------|-----------|--|---|-------|

## AMMONIUM POLYPHOSPHATE

|           |            |   |  |       |
|-----------|------------|---|--|-------|
| 269-789-9 | 68333-79-9 | - | Acute Tox. 4: H302; Eye Irrit. 2: H319 | 1-10% |
|-----------|------------|---|--|-------|

## TRIETHYL PHOSPHATE

|           |         |   |                    |       |
|-----------|---------|---|--------------------|-------|
| 201-114-5 | 78-40-0 | - | Acute Tox. 4: H302 | 1-10% |
|-----------|---------|---|--------------------|-------|

## EPOXY PHENOL NOVALAC - REACH registered number(s): 01-2119454392-40-XXXX

|           |            |   |  |     |
|-----------|------------|---|--|-----|
| 608-164-0 | 28064-14-4 | - | Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411 | <1% |
|-----------|------------|---|--|-----|

## C13-C15 ALKYL GLYCIDYL ETHERS

|           |            |   |  |     |
|-----------|------------|---|--|-----|
| 268-358-2 | 68081-84-5 | - | Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411 | <1% |
|-----------|------------|---|--|-----|

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If irritation occurs or persists, seek medical attention. Transfer to hospital if necessary.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

**Skin contact:** There may be irritation and redness at the site of contact. May cause sensitisation in susceptible individuals.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** Exposure may cause coughing or wheezing. There may be a feeling of tightness in the chest with shortness of breath.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure. Delayed effects can be expected after long-term exposure.

[cont...]

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

Immediate / special treatment: Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

Exposure hazards: In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

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

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

### 7.3. Specific end use(s)

Specific end use(s): PC1: Adhesives, sealants.

[cont...]

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## Section 8: Exposure controls/personal protection

## 8.1. Control parameters

Workplace exposure limits: No data available.

## DNEL/PNEC Values

Hazardous ingredients:

## ALUMINIUM HYDROXIDE

| Type | Exposure   | Value                   | Population | Effect   |
|------|------------|-------------------------|------------|----------|
| DNEL | Inhalation | 10.76 mg/m <sup>3</sup> | Workers    | Systemic |
| DNEL | Inhalation | 3.59 mg/m <sup>3</sup>  | Workers    | Local    |

## BISPHENOL A EPOXY RESIN (MW &lt;700)

| Type | Exposure                           | Value                   | Population | Effect   |
|------|------------------------------------|-------------------------|------------|----------|
| DNEL | Inhalation                         | 12.25 mg/m <sup>3</sup> | Workers    | Systemic |
| DNEL | Dermal                             | 8.33 mg/kg              | Workers    | Systemic |
| PNEC | Fresh water                        | 6 ug/L                  | -          | -        |
| PNEC | Marine water                       | 600 ng/L                | -          | -        |
| PNEC | Microorganisms in sewage treatment | 10 mg/L                 | -          | -        |
| PNEC | Fresh water sediments              | 996 ug/kg               | -          | -        |
| PNEC | Marine sediments                   | 99.6 ug/kg              | -          | -        |
| PNEC | Soil (agricultural)                | 196 ug/kg               | -          | -        |
| PNEC | Food chain                         | 11 mg/kg                | -          | -        |

## GLYCIDYL NEODECANOATE

| Type | Exposure                           | Value                 | Population | Effect   |
|------|------------------------------------|-----------------------|------------|----------|
| DNEL | Inhalation                         | 2.7 mg/m <sup>3</sup> | Workers    | Systemic |
| DNEL | Dermal                             | 1.9 mg/kg             | Workers    | Systemic |
| PNEC | Fresh water                        | 1.2 ug/L              | -          | -        |
| PNEC | Marine water                       | 120 ng/L              | -          | -        |
| PNEC | Microorganisms in sewage treatment | 50 mg/L               | -          | -        |

## DIISONONYL PHTHALATE

| Type | Exposure            | Value                   | Population | Effect   |
|------|---------------------|-------------------------|------------|----------|
| DNEL | Inhalation          | 51.72 mg/m <sup>3</sup> | Workers    | Systemic |
| DNEL | Dermal              | 366 mg/kg               | Workers    | Systemic |
| PNEC | Soil (agricultural) | 30 mg/kg                | -          | -        |

[cont...]

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## AMMONIUM POLYPHOSPHATE

| Type | Exposure   | Value                   | Population | Effect   |
|------|------------|-------------------------|------------|----------|
| DNEL | Inhalation | 18.06 mg/m <sup>3</sup> | Workers    | Systemic |

## TRIETHYL PHOSPHATE

| Type | Exposure                           | Value                   | Population | Effect   |
|------|------------------------------------|-------------------------|------------|----------|
| DNEL | Inhalation                         | 11.81 mg/m <sup>3</sup> | Workers    | Systemic |
| DNEL | Inhalation                         | 94.5 mg/m <sup>3</sup>  | Workers    | Systemic |
| DNEL | Dermal                             | 3.35 mg/kg              | Workers    | Systemic |
| DNEL | Dermal                             | 26.8 mg/kg              | Workers    | Systemic |
| PNEC | Fresh water                        | 632 ug/L                | -          | -        |
| PNEC | Microorganisms in sewage treatment | 298.5 mg/L              | -          | -        |

### 8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

## Section 9: Physical and chemical properties

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

State: Liquid

Colour: Black

Odour: Barely perceptible odour

Relative density: 1.79

### 9.2. Other information

Other information: No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

[cont...]

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## 10.4. Conditions to avoid

Conditions to avoid: Heat.

## 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Hazardous ingredients:

#### ALUMINIUM HYDROXIDE

|      |     |      |       |       |
|------|-----|------|-------|-------|
| ORAL | RAT | LD50 | >2000 | mg/kg |
|------|-----|------|-------|-------|

#### BISPHENOL A EPOXY RESIN (MW <700)

|        |     |      |       |       |
|--------|-----|------|-------|-------|
| DERMAL | RAT | LD50 | >2000 | mg/kg |
| ORAL   | RAT | LD50 | >2000 | mg/kg |

#### GLYCIDYL NEODECANOATE

|        |     |      |       |       |
|--------|-----|------|-------|-------|
| DERMAL | RAT | LD50 | >2000 | mg/kg |
| ORAL   | RAT | LD50 | >2000 | mg/kg |

#### DIISONONYL PHTHALATE

|           |     |         |        |       |
|-----------|-----|---------|--------|-------|
| DERMAL    | RBT | LD50    | >3160  | mg/kg |
| DUST/MIST | RAT | 4H LC50 | >4.4   | mg/kg |
| ORAL      | RAT | LD50    | >10000 | mg/kg |

#### KAOLIN

|        |     |      |       |       |
|--------|-----|------|-------|-------|
| DERMAL | RAT | LD50 | >5000 | mg/kg |
| ORAL   | RAT | LD50 | >5000 | mg/kg |

#### AMMONIUM POLYPHOSPHATE

|           |     |         |       |       |
|-----------|-----|---------|-------|-------|
| DUST/MIST | RAT | 4H LC50 | >4.85 | mg/l  |
| ORAL      | RAT | LD50    | >300  | mg/kg |

#### TRIETHYL PHOSPHATE

|        |     |      |        |       |
|--------|-----|------|--------|-------|
| DERMAL | RBT | LD50 | >20000 | mg/kg |
|--------|-----|------|--------|-------|

[cont...]

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|           |     |         |        |       |
|-----------|-----|---------|--------|-------|
| DUST/MIST | RAT | 4H LC50 | >8.817 | mg/l  |
| ORAL      | RAT | LD50    | 1600   | mg/kg |

### EPOXY PHENOL NOVALAC

|        |     |      |       |       |
|--------|-----|------|-------|-------|
| DERMAL | RAT | LD50 | >2000 | mg/kg |
| ORAL   | RAT | LD50 | >2000 | mg/kg |

### Relevant hazards for product:

| Hazard                         | Route | Basis                 |
|--------------------------------|-------|-----------------------|
| Skin corrosion/irritation      | DRM   | Hazardous: calculated |
| Serious eye damage/irritation  | OPT   | Hazardous: calculated |
| Respiratory/skin sensitisation | DRM   | Hazardous: calculated |
| Germ cell mutagenicity         | --    | Hazardous: calculated |

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact. May cause sensitisation in susceptible individuals.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** Exposure may cause coughing or wheezing. There may be a feeling of tightness in the chest with shortness of breath.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure. Delayed effects can be expected after long-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

#### Hazardous ingredients:

##### ALUMINIUM HYDROXIDE

|   |           |      |      |
|---|-----------|------|------|
| Daphnia magna                                   | 48H EC50  | >100 | mg/l |
| FISH  | 96H LC50  | >100 | mg/l |
| GREEN ALGA ( <i>Selenastrum capricornutum</i> ) | 72H ErC50 | >100 | mg/l |

##### BISPHENOL A EPOXY RESIN (MW <700)

|   |           |     |      |
|---|-----------|-----|------|
| Daphnia magna                                   | 48H EC50  | 1.7 | mg/l |
| GREEN ALGA ( <i>Selenastrum capricornutum</i> ) | 72H ErC50 | 2.4 | mg/l |
| RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> )    | 96H LC50  | 1.2 | mg/l |

[cont...]



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### GLYCIDYL NEODECANOATE

|  |           |     |      |
|--|-----------|-----|------|
| Daphnia magna                          | 48H EC50  | 4.8 | mg/l |
| GREEN ALGA (Selenastrum capricornutum) | 72H ErC50 | 1.2 | mg/l |
| RAINBOW TROUT (Oncorhynchus mykiss)    | 96H LC50  | 5   | mg/l |

### DIISONONYL PHTHALATE

|                               |           |      |      |
|-------------------------------|-----------|------|------|
| Daphnia magna                 | 48H EC50  | >74  | mg/l |
| Scenedesmus Subspicatus       | 72H ErC50 | >88  | mg/l |
| ZEBRAFISH (Brachydanio rerio) | 96H LC50  | >100 | mg/l |

### TRIETHYL PHOSPHATE

|               |           |      |      |
|---------------|-----------|------|------|
| ALGAE         | 72H ErC50 | 901  | mg/l |
| Daphnia magna | 48H EC50  | >100 | mg/l |
| FISH          | 96H LC50  | >100 | mg/l |

### EPOXY PHENOL NOVALAC

|               |           |     |      |
|---------------|-----------|-----|------|
| ALGAE         | 72H ErC50 | 9.4 | mg/l |
| Daphnia magna | 48H EC50  | 1.7 | mg/l |
| FISH          | 96H LC50  | 1.5 | mg/l |

#### 12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

#### 12.4. Mobility in soil

Mobility: No data available.

#### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms.

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 08 04 09

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

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## Section 14: Transport information

Transport class: This product does not require a classification for transport.

## Section 15: Regulatory information

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

Specific regulations: Not applicable.

### 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH205: Contains epoxy constituents. May produce an allergic reaction.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H341: Suspected of causing genetic defects ([kidneys] [liver] [bone marrow]).

H341: Suspected of causing genetic defects ([kidneys][liver][bone marrow]).

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name: HX700K/NC

Synonyms: EHC: 28611000000794

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

Use of substance / mixture: PC1: Adhesives, sealants.

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

Company name: Robnor ResinLab Ltd

31 Athena Avenue

Elgin Industrial Estate

Swindon

Wiltshire

SN2 8EJ

United Kingdom

Tel: +44(0) 1793 823741

Fax: +44(0) 1793 827033

Email: [eusds@robnor.co.uk](mailto:eusds@robnor.co.uk)**1.4. Emergency telephone number**

Emergency tel: +44(0) 1793 823741

(office hours only)

**Section 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification under CLP: Skin Corr. 1A: H314; Acute Tox. 4: H302+H332; Skin Sens. 1: H317; STOT RE 2: H373; Aquatic Chronic 2: H411

Most important adverse effects: Causes severe skin burns and eye damage. Harmful if swallowed or if inhaled May cause an allergic skin reaction. May cause damage to organs ([liver][muscles]) through prolonged or repeated exposure ([oral]). Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

H302+H332: Harmful if swallowed or if inhaled

H317: May cause an allergic skin reaction.

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H373: May cause damage to organs ([liver][muscles]) through prolonged or repeated exposure ([oral]).

H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark

GHS08: Health hazard

GHS09: Environmental



Signal words: Danger

Precautionary statements: \* P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P273: Avoid release to the environment.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

## 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

Hazardous ingredients:

BENZYL ALCOHOL - REACH registered number(s): 01-2119492630-38-XXXX

| EINECS    | CAS      | PBT / WEL | CLP Classification                     | Percent |
|-----------|----------|-----------|--|---------|
| 202-859-9 | 100-51-6 | -         | Acute Tox. 4: H332; Acute Tox. 4: H302 | 30-50%  |

[cont...]

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4,4'-DIAMINODICYCLOHEXYLMETHANE - REACH registered number(s): 01-2119541673-38-XXXX

|           |           |   |   |        |
|-----------|-----------|---|---|--------|
| 217-168-8 | 1761-71-3 | - | Skin Corr. 1A: H314; Acute Tox. 4: H302+H312; Skin Sens. 1B: H317; STOT RE 2: H373; Aquatic Chronic 2: H411 | 30-50% |
|-----------|-----------|---|---|--------|

3-AMINOPROPYLDIMETHYLAMINE - REACH registered number(s): 01-21194868942-27-XXXX

|           |          |   |   |        |
|-----------|----------|---|---|--------|
| 203-680-9 | 109-55-7 | - | Flam. Liq. 3: H226; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317 | 10-30% |
|-----------|----------|---|---|--------|

## Section 4: First aid measures

### 4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

- Skin contact:** Severe burns may occur. Blistering may occur. Progressive ulceration will occur if treatment is not immediate. May cause sensitisation in susceptible individuals.
- Eye contact:** Corneal burns may occur. May cause permanent damage.
- Ingestion:** Corrosive burns may appear around the lips. There may be vomiting. Nausea and stomach pain may occur.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing. Drowsiness or mental confusion may occur.

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

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance. A decontamination shower should be available on the premises. Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

[cont...]

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## 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

Exposure hazards: Corrosive. In combustion emits toxic fumes.

## 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

### 7.3. Specific end use(s)

Specific end use(s): PC1: Adhesives, sealants.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

Workplace exposure limits: No data available.

[cont...]

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## DNEL/PNEC Values

Hazardous ingredients:

## BENZYL ALCOHOL

| Type | Exposure                           | Value                 | Population | Effect   |
|------|------------------------------------|-----------------------|------------|----------|
| DNEL | Inhalation                         | 22 mg/m <sup>3</sup>  | Workers    | Systemic |
| DNEL | Inhalation                         | 110 mg/m <sup>3</sup> | Workers    | Local    |
| DNEL | Dermal (repeated dose)             | 8 mg/kg               | Workers    | Systemic |
| DNEL | Dermal                             | 40 mg/kg              | Workers    | Systemic |
| PNEC | Fresh water                        | 1 mg/L                | -          | -        |
| PNEC | Marine water                       | 100 ug/L              | -          | -        |
| PNEC | Microorganisms in sewage treatment | 39 mg/L               | -          | -        |
| PNEC | Fresh water sediments              | 5.27 mg/kg            | -          | -        |
| PNEC | Marine sediments                   | 527 ug/kg             | -          | -        |
| PNEC | Soil (agricultural)                | 456 ug/kg             | -          | -        |

## 4,4'-DIAMINODICYCLOHEXYLMETHANE

| Type | Exposure                           | Value               | Population | Effect   |
|------|------------------------------------|---------------------|------------|----------|
| DNEL | Inhalation                         | 1 mg/m <sup>3</sup> | Workers    | Systemic |
| DNEL | Dermal                             | 0.1 mg/kg           | Workers    | Systemic |
| PNEC | Fresh water                        | 80 ug/L             | -          | -        |
| PNEC | Marine water                       | 8 ug/L              | -          | -        |
| PNEC | Microorganisms in sewage treatment | 3.2 mg/L            | -          | -        |
| PNEC | Fresh water sediments              | 14.6 mg/kg          | -          | -        |
| PNEC | Marine sediments                   | 1.46 mg/kg          | -          | -        |
| PNEC | Soil (agricultural)                | 4.56 mg/kg          | -          | -        |
| PNEC | Food chain                         | 556 ug/kg           | -          | -        |

## 3-AMINOPROPYLDIMETHYLAMINE

| Type | Exposure                           | Value                 | Population | Effect   |
|------|------------------------------------|-----------------------|------------|----------|
| DNEL | Inhalation                         | 4.9 mg/m <sup>3</sup> | Workers    | Systemic |
| DNEL | Inhalation                         | 9.8 mg/m <sup>3</sup> | Workers    | Systemic |
| PNEC | Fresh water                        | 34 ug/L               | -          | -        |
| PNEC | Marine water                       | 3.4 ug/L              | -          | -        |
| PNEC | Microorganisms in sewage treatment | 69.5 mg/L             | -          | -        |
| PNEC | Fresh water sediments              | 221 ug/kg             | -          | -        |

[cont...]

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|      |                     |            |   |   |
|------|---------------------|------------|---|---|
| PNEC | Marine sediments    | 22.1 ug/kg | - | - |
| PNEC | Soil (agricultural) | 24.2 ug/kg | - | - |

## 8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

## Section 9: Physical and chemical properties

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

State: Liquid

Colour: Colourless

Odour: Ammonia

Flash point°C: 94

Relative density: 1.01

### 9.2. Other information

Other information: No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

Conditions to avoid: Heat.

### 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

[cont...]



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**Hazardous ingredients:**

**BENZYL ALCOHOL**

|           |     |         |        |       |
|-----------|-----|---------|--------|-------|
| DUST/MIST | RAT | 4H LC50 | >4.178 | mg/l  |
| ORAL      | RAT | LD50    | 1620   | mg/kg |

**4,4'-DIAMINODICYCLOHEXYLMETHANE**

|        |     |      |       |       |
|--------|-----|------|-------|-------|
| DERMAL | RBT | LD50 | >1000 | mg/kg |
| ORAL   | RAT | LD50 | 380   | mg/kg |

**3-AMINOPROPYLDIMETHYLAMINE**

|         |     |         |       |       |
|---------|-----|---------|-------|-------|
| ORL     | RAT | LD50    | 1870  | mg/kg |
| SKN     | RBT | LD50    | >400  | mg/kg |
| VAPOURS | RAT | 4H LC50 | >4.31 | mg/l  |

**Relevant hazards for product:**

| Hazard                         | Route   | Basis                 |
|--------------------------------|---------|-----------------------|
| Acute toxicity (ac. tox. 4)    | INH ING | Hazardous: calculated |
| Skin corrosion/irritation      | DRM     | Hazardous: calculated |
| Serious eye damage/irritation  | OPT     | Hazardous: calculated |
| Respiratory/skin sensitisation | DRM     | Hazardous: calculated |
| STOT-repeated exposure         | -       | Hazardous: calculated |

**Symptoms / routes of exposure**

**Skin contact:** Severe burns may occur. Blistering may occur. Progressive ulceration will occur if treatment is not immediate. May cause sensitisation in susceptible individuals.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. There may be vomiting. Nausea and stomach pain may occur.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing. Drowsiness or mental confusion may occur.

**Section 12: Ecological information**

**12.1. Toxicity**

**Hazardous ingredients:**

**BENZYL ALCOHOL**

|       |  |           |     |      |
|-------|--|-----------|-----|------|
| ALGAE |  | 72H ErC50 | 500 | mg/l |
|-------|--|-----------|-----|------|

[cont...]

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|               |          |     |      |
|---------------|----------|-----|------|
| Daphnia magna | 48H EC50 | 230 | mg/l |
| FISH          | 96H LC50 | 460 | mg/l |

## 4,4'-DIAMINODICYCLOHEXYLMETHANE

|               |           |      |      |
|---------------|-----------|------|------|
| ALGAE         | 72H ErC50 | 140  | mg/l |
| Daphnia magna | 48H EC50  | 7.07 | mg/l |
| FISH          | 96H LC50  | 32   | mg/l |

## 3-AMINOPROPYLDIMETHYLAMINE

|                         |           |       |      |
|-------------------------|-----------|-------|------|
| Daphnia magna           | 48H EC50  | 59.46 | mg/l |
| FISH                    | 96H LC50  | 122   | mg/l |
| Scenedesmus Subspicatus | 72H ErC50 | 53.5  | mg/l |

### 12.2. Persistence and degradability

Persistence and degradability: Biodegradable in part only.

### 12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

### 12.4. Mobility in soil

Mobility: Partially soluble in water.

### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 08 04 09

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

UN number: UN2735

[cont...]

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## 14.2. UN proper shipping name

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.  
(4,4'-DIAMINODICYCLOHEXYLMETHANE; 3-AMINOPROPYLDIMETHYLAMINE)

## 14.3. Transport hazard class(es)

Transport class: 8

## 14.4. Packing group

Packing group: II

## 14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

## 14.6. Special precautions for user

Tunnel code: E

Transport category: 2

## Section 15: Regulatory information

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

Specific regulations: Not applicable.

### 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H302+H312: Harmful if swallowed or in contact with skin

H302+H332: Harmful if swallowed or if inhaled

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.

H373: May cause damage to organs ([liver], [muscles]) through prolonged or repeated exposure ([oral]).

H373: May cause damage to organs ([liver][muscles]) through prolonged or repeated exposure ([oral]).

H411: Toxic to aquatic life with long lasting effects.

[cont...]

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Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.