# SAFETY DATA SHEET

HX804D/NC



**Compilation date:** 20/04/2012

**Revision date:** 06/04/2016

**Revision No:** 3a

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

### 1.1. Product identifier

**Product name:** HX804D/NC

**Synonyms:** EHC: 28611000000814

### 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

### 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+332; Skin Sens. 1: H317; Aquatic Chronic 3: H412; Eye Dam. 1: H318

**Most important adverse effects:** Causes severe skin burns and eye damage. Harmful if swallowed or if inhaled. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

**Label elements:**

**Hazard statements:** H314: Causes severe skin burns and eye damage.
H302+332: Harmful if swallowed or if inhaled.
H317: May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

**Hazard pictograms:** GHS05: Corrosion
GHS07: Exclamation mark

**Signal words:** Danger

**Precautionary statements:** P260: Do not breathe vapours.

[cont...]

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310: Immediately call a doctor.
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:**

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% |

ISOPHORONE DIAMINE - REACH registered number(s): 01-2119514687-32-XXXX

| | | | | |
|---|---|---|---|---|
| 220-666-8 | 2855-13-2 | - | Skin Corr. 1B: H314; Acute Tox. 4: H302; Skin Sens. 1: H317; Aquatic Chronic 3: H412 | 10-20% |

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; Skin Sens. 1: H317; Aquatic Chronic 2: H411 | 10-20% |

META-XYLENEDIAMINE - REACH registered number(s): 01-2119480150-50-XXXX

| | | | | |
|---|---|---|---|---|
| 216-032-5 | 1477-55-0 | - | Skin Corr. 1A: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412; Acute Tox. 3: H331; Acute Tox. 4: H302; -: EUH071 | 1-10% |

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

[cont...]

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

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

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

### 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

### 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.

[cont...]

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### DNEL/PNEC Values

**Hazardous ingredients:**

**BENZYL ALCOHOL**

| Type | Exposure | Value | Population | Effect |
|---|---|---|---|---|
| DNEL | Inhalation | 22 mg/m3 | Workers | Systemic |
| DNEL | Inhalation | 110 mg/m3 | 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 | - | - |

**ISOPHORONE DIAMINE**

| Type | Exposure | Value | Population | Effect |
|---|---|---|---|---|
| DNEL | Inhalation | 0.073 mg/m3 | Workers | Local |
| PNEC | Fresh water | 60 ug/L | - | - |
| PNEC | Marine water | 6 ug/L | - | - |
| PNEC | Microorganisms in sewage treatment | 3.18 mg/L | - | - |
| PNEC | Fresh water sediments | 5.784 mg/kg | - | - |
| PNEC | Marine sediments | 578 ug/kg | - | - |
| PNEC | Soil (agricultural) | 1.121 mg/kg | - | - |

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

| Type | Exposure | Value | Population | Effect |
|---|---|---|---|---|
| DNEL | Inhalation | 12.25 mg/m3 | 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 | - | - |

**META-XYLENEDIAMINE**

| Type | Exposure | Value | Population | Effect |
|---|---|---|---|---|
| DNEL | Inhalation | 1.2 mg/m3 | Workers | Systemic |
| DNEL | Inhalation | 0.2 mg/m3 | Workers | Local |
| DNEL | Dermal | 0.33 mg/kg | Workers | Systemic |

[cont...]

| | | | | |
|---|---|---|---|---|
| PNEC | Fresh water | 94 ug/L | - | - |
| PNEC | Marine water | 9 ug/L | - | - |
| PNEC | Microorganisms in sewage treatment | 10 mg/L | - | - |
| PNEC | Fresh water sediments | 430 ug/kg | - | - |
| PNEC | Marine sediments | 43 ug/kg | - | - |
| PNEC | Soil (agricultural) | 45 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:** Yellow-brown

**Odour:** Characteristic odour

**Viscosity:** Non-viscous

**Boiling point/range°C:** >150 **Flash point°C:** >100

**Relative density:** 1.05

### 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...]

**Hazardous ingredients:**

**BENZYL ALCOHOL**

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

**ISOPHORONE DIAMINE**

| | | | | |
|---|---|---|---|---|
| DERMAL | RAT | LD50 | >2000 | mg/kg |
| ORAL | RAT | LD50 | 1030 | mg/kg |

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

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

**META-XYLENEDIAMINE**

| | | | | |
|---|---|---|---|---|
| DERMAL | RAT | LD50 | >3100 | mg/kg |
| DUST/MIST | RAT | 4H LC50 | 1.16 | mg/l |
| ORAL | RAT | LD50 | 980 | mg/kg |

**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 |

### Symptoms / routes of exposure

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

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

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

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

## Section 12: Ecological information

### 12.1. Toxicity

**Hazardous ingredients:**

**BENZYL ALCOHOL**

| | | | |
|---|---|---|---|
| ALGAE | 72H ErC50 | 500 | mg/l |
| Daphnia magna | 48H EC50 | 230 | mg/l |
| FISH | 96H LC50 | 460 | mg/l |

**ISOPHORONE DIAMINE**

| | | | |
|---|---|---|---|
| Daphnia magna | 48H EC50 | 23 | mg/l |
| FISH | 96H LC50 | 110 | mg/l |
| Scenedesmus Subspicatus | 72H ErC50 | >50 | mg/l |

[cont...]

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

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

**META-XYLENEDIAMINE**

| | | | |
|---|---|---|---|
| GREEN ALGA (Selenastrum capricornutum) | 72H ErC50 | 33.3 | mg/l |
| RAINBOW TROUT (Oncorhynchus mykiss) | 96H LC50 | >100 | 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:** Insoluble 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:** 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.

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN2735

### 14.2. UN proper shipping name

**Shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S.
(ISOPHORONE DIAMINE; META-XYLYLENEDIAMINE)

### 14.3. Transport hazard class(es)

**Transport class:** 8

### 14.4. Packing group

**Packing group:** II

### 14.5. Environmental hazards

**Environmentally hazardous:** No **Marine pollutant:** No

### 14.6. Special precautions for user

**Tunnel code:** E

[cont...]

**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:** EUH071: Corrosive to the respiratory tract.

H302: Harmful if swallowed.

H302+332: Harmful if swallowed or if inhaled.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H332: Harmful if inhaled.

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.