SAFETY DATA SHEET

RX804C-1/BK

Compilation date: 23/11/2017

Revision date: 12/11/2019

Revision No: 2.0

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

1.1. Product identifier

Product name: RX804C-1/BK

Synonyms: EHC: 28611000002243

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 Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411

Most important adverse effects: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

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

Hazard pictograms: * GHS07: Exclamation mark
GHS09: Environmental

[cont...]

Signal words: Warning

Precautionary statements: * P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands, forearms and face thoroughly after handling.

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 soap and water.

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

P362+P364: Take off contaminated clothing and wash it before reuse.

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

P337+P313: If eye irritation persists: Get medical advice/attention.

P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Haz. ingredients (label): BISPHENOL A EPOXY RESIN (MW <700); LAURYL/MYRISTYL GLYCIDYL ETHER; BISPHENOL F EPICHLOROHYDRIN RESIN (MW<700); EPOXY PHENOL NOVALAC; C13-C15 ALKYL GLYCIDYL ETHERS

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.	-	10-30%

LIMESTONE

215-279-3	1317-65-3	Substance with a Community workplace exposure limit.	-	10-30%

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	10-30%

[cont...]

LAURYL/MYRISTYL GLYCIDYL ETHER

271-846-8	68609-97-2	-	Skin Irrit. 2: H315; Skin Sens. 1: H317	1-10%

BISPHENOL F EPICHLOROHYDRIN RESIN (MW<700) - REACH registered number(s): 01-2119454392-92-XXXX; 01-2119454392-40-XXXX

500-006-8	9003-36-5	-	Skin Irrit. 2: H315; Skin Sens. 1B: H317; Aquatic Chronic 2: H411	1-10%

KAOLIN

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

Contains: *

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 neccessary.

Eye contact: Immediately remove contact lenses if present. Bathe the eye with running water for 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. 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. The vision may become blurred.

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

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

[cont...]

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: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Eliminate all sources of ignition. Ensure adequate ventilation.

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. Ensure there is exhaust 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

Hazardous ingredients:

ALUMINIUM HYDROXIDE

Workplace exposure limits: **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	4 mg/m3	10 mg/m3	-	-

LIMESTONE

UK	10 mg/m3	4 mg/m3	-	-

KAOLIN

UK	2 mg/m3	-	-	-

DNEL/PNEC Values

Hazardous ingredients:

ALUMINIUM HYDROXIDE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	10.76 mg/m3	Workers	Systemic
DNEL	Inhalation	3.59 mg/m3	Workers	Local

LIMESTONE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	10 mg/m3	Workers	Systemic

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	-	-

[cont...]

LAURYL/MYRISTYL GLYCIDYL ETHER

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	3.6 mg/m3	Workers	Systemic
DNEL	Dermal	1 mg/kg	Workers	Systemic
PNEC	Fresh water	7.2 ug/L	-	-
PNEC	Marine water	720 ng/L	-	-
PNEC	Microorganisms in sewage treatment	10 mg/L	-	-
PNEC	Fresh water sediments	307 mg/kg	-	-
PNEC	Marine sediments	30.72 mg/kg	-	-
PNEC	Soil (agricultural)	61.42 mg/kg	-	-

BISPHENOL F EPICHLOROHYDRIN RESIN (MW<700)

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	29.39 mg/m3	Workers	Systemic
DNEL	Dermal	104.15 mg/kg	Workers	Systemic
DNEL	Dermal	8.3 ug/cm2	Workers	Local
PNEC	Fresh water	3 ug/L	-	-
PNEC	Microorganisms in sewage treatment	10 mg/L	-	-
PNEC	Fresh water sediments	294 ug/kg	-	-
PNEC	Marine sediments	29 ug/kg	-	-
PNEC	Soil (agricultural)	237 ug/kg	-	-

8.2. Exposure controls

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

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory protection should be worn when there is inadequate ventilation. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection: Protective gloves.

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

Skin protection: 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

Viscosity: Viscous

[cont...]

Relative density: 1.830

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.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

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

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

LIMESTONE

DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	>3	mg/l
ORAL	RAT	LD50	>2000	mg/kg

BISPHENOL A EPOXY RESIN (MW <700)

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

[cont...]

LAURYL/MYRISTYL GLYCIDYL ETHER

DERMAL	RBT	LD50	4000	mg/kg
ORAL	RAT	LD50	26800	mg/kg

BISPHENOL F EPICHLOROHYDRIN RESIN (MW<700)

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

KAOLIN

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

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. The vision may become blurred.

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

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

[cont...]

ALUMINIUM HYDROXIDE

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

LIMESTONE

Daphnia magna	48H EC50	>100	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>100	mg/l
Scenedesmus Subspicatus	72H ErC50	>14	mg/l

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

LAURYL/MYRISTYL GLYCIDYL ETHER

Daphnia magna	48H EC50	4.2	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H IC50	843	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>100	mg/l

BISPHENOL F EPICHLOROHYDRIN RESIN (MW<700)

ALGAE	72H ErC50	1.8	mg/l
Daphnia magna	48H EC50	1.6	mg/l
FISH	96H LC50	550	µg/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: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

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.

[cont...]

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: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A EPOXY RESIN (MW <700))

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes **Marine pollutant:** Yes

14.6. Special precautions for user

Special precautions: Marine pollutant(s) - BISPHENOL A EPOXY RESIN (MW <700) ;

Tunnel code: -

Transport category: 3

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.

[cont...]

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

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

Phrases used in s.2 and s.3: 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.

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.

SAFETY DATA SHEET

HX804C-1/NC

Compilation date: 23/11/2017

Revision date: 06/03/2020

Revision No: 3.1

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

1.1. Product identifier

Product name: HX804C-1/NC

Synonyms: EHC: 28611000002244

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: * Acute Tox. 4: H302; Skin Corr. 1B: H314; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Chronic 3: H412

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

2.2. Label elements

Label elements:

Hazard statements: * H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.

[cont...]

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 dust/fume/gas/mist/vapours/spray.

P273: Avoid release to the environment.

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

P264: Wash hands, forearms and face thoroughly after handling.

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

P330: Rinse mouth.

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

P363: Wash contaminated clothing before reuse.

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

P310: Immediately call a POISON CENTER or doctor.

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 water.

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

P362+P364: Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Haz. ingredients (label): BENZYL ALCOHOL; 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE; 4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH M-PHENYLENEBIS(METHYLAMINE); META-XYLYLENEDIAMINE; STYRENATED PHENOL

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

[cont...]

*** 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%

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

220-666-8	2855-13-2	-	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412	10-30%

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH M-PHENYLENEBIS(METHYLAMINE)

500-302-7	113930-69-1	-	Acute Tox. 4: H302; Skin Sens. 1: H317; Aquatic Chronic 2: H411	1-10%

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%

STYRENATED PHENOL

262-975-0	61788-44-1	-	Skin Irrit. 2: H315; Skin Sens. 1A: H317; Aquatic Chronic 1: H410	1-10%

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL - REACH registered number(s): 01-2119560597-27-XXXX

202-013-9	90-72-2	-	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	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: * Immediately remove contact lenses if present. Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: * Do not induce vomiting. Wash out mouth with water. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible.

Inhalation: * Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. Move to fresh air in case of accidental inhalation of vapours. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible.

[cont...]

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

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

Eye contact: * Corneal burns may occur. There may be severe pain. May cause permanent damage. May cause permanent blindness. The eyes may water profusely. The vision may become blurred.

Ingestion: * Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose. Nausea and stomach pain may occur. Harmful if swallowed.

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. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: * Carbon dioxide. Dry chemical powder. Water jet. Alcohol resistant foam.

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: * Notify the police and fire brigade immediately. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Eliminate all sources of ignition. Ensure adequate ventilation.

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.

[cont...]

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 exhaust 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.

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	-	-

META-XYLENEDIAMINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1.2 mg/m3	Workers	Systemic

[cont...]

DNEL	Inhalation	0.2 mg/m3	Workers	Local
DNEL	Dermal	0.33 mg/kg	Workers	Systemic
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	-	-

STYRENATED PHENOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	4.11 mg/m3	Workers	Systemic
DNEL	Dermal	2.92 mg/kg	Workers	Systemic
PNEC	Fresh water	11.5 ug/L	-	-
PNEC	Marine water	1.15 ug/L	-	-
PNEC	Microorganisms in sewage treatment	10 mg/L	-	-
PNEC	Fresh water sediments	1.564 mg/kg	-	-
PNEC	Marine sediments	156.4 ug/kg	-	-
PNEC	Soil (agricultural)	305.2 ug/kg	-	-

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Type	Exposure	Value	Population	Effect
PNEC	Fresh water	84 ug/L	-	-
PNEC	Marine water	8.4 ug/L	-	-
PNEC	Microorganisms in sewage treatment	200 ug/L	-	-

8.2. Exposure controls

Engineering measures: * Ensure there is exhaust ventilation of the area.

Respiratory protection: * When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory protection should be worn when there is inadequate ventilation. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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

[cont...]

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: * Yellow

Odour: * Amine

Solubility in water: * Not miscible

Boiling point/range°C: >200 **Flash point°C:** >100

Relative density: 1.060

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 bases. Strong acids. Strong oxidising agents.

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:

BENZYL ALCOHOL

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

META-XYLENEDIAMINE

DERMAL	RAT	LD50	>3100	mg/kg

[cont...]

DUST/MIST	RAT	4H LC50	1.16	mg/l
ORAL	RAT	LD50	980	mg/kg

STYRENATED PHENOL

ORAL	RAT	LD50	>2000	mg/kg

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

DERMAL	RAT	LD50	1280	mg/kg
ORAL	RAT	LD50	1000	mg/kg
VAPOURS	RAT	4H LC50	>0.5	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	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. Severe burns may occur. Progressive ulceration will occur if treatment is not immediate. May cause sensitisation in susceptible individuals.

Eye contact: * Corneal burns may occur. There may be severe pain. May cause permanent damage. May cause permanent blindness. The eyes may water profusely. The vision may become blurred.

Ingestion: * Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose. Nausea and stomach pain may occur. Harmful if swallowed.

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

[cont...]

META-XYLENEDIAMINE

GREEN ALGA (Selenastrum capricornutum)	72H ErC50	33.3	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>100	mg/l

STYRENATED PHENOL

ALGAE	72H ErC50	>10	mg/l
DAPHNIA	48H EC50	4.6	mg/l
FISH	96H LC50	5.6	mg/l

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Scenedesmus Subspicatus	72H ErC50	66	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	175	mg/l

12.2. Persistence and degradability

Persistence and degradability: * No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: * No data available.

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 02 99

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...]

14.2. UN proper shipping name

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.

(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE; META-XYLENEDIAMINE)

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

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.

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

* 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.

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.

H331: Toxic if inhaled.

H332: Harmful if inhaled.

[cont...]

H410: Very toxic to aquatic life with long lasting effects.

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.