

Amroy Europe Oy, VAT no. FI19869654

Curing Agents

CURING AGENT

EPOPOX™ UVb component
1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product name name of substance Epopox™ UVb component
 Product type curing agent, cycloaliphatic amine
 Supplier Amroy Europe Oy www.amroy.fi
 P. O. Box 144
 FI – 15101 Lahti, Finland
 Contact numbers/Emergency Tel. +358 400 815 266
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation description Cycloaliphatic amine

Dangerous components/constituents

CAS Number:

2855-13-2	3-aminomethyl / 3,5,5-trimethylcyclohexylamine	50 – 70 %
Einecs 220-666-8	C; R21/22, R34, R43, R52/53	
28064-14-4	Polyoxoalkyleneamine	0 – 25 %
	C; R34	

3. HAZARDS IDENTIFICATION
C
Corrosive

R21/22 Harmful in contact with skin and if swallowed.
 R34 Causes burns.
 R43 May cause sensitization by skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Symptoms and effects Irritation of the skin and eyes.

First Aid

– inhalation no specific measures
 – skin Do not delay. Remove contaminated clothing. Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.
 – eyes Do not delay. Flush eyes with water. If persistent irritation occurs, obtain medical attention immediately.
 – ingestion Do not induce vomiting. In the unlikely event of ingestion, obtain medical attention immediately.

Advice to physicians If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed.

5. FIRE FIGHTING MEASURES

Special hazards	Not classified as flammable, but will burn. Carbon monoxide may be involved incomplete combustion occurs.
Extinguishing media	
– small fires	dry chemical powder, carbon-dioxide foam, water spray or fog, sand or earth
– large fires	foam, water spray or fog
Unsuitable extinguishing media	water in a jet
Protective equipment	full protective clothing and self contained breathing apparatus
Other information	Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with skin, eyes and clothing.
Personal protection	Wear protective clothing specified for normal operations (see section 8).
Environmental precautions	Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. If material enters drains it should be pumped out into an open vessel. Emergence services may need to be called to assist in this operation.
Clean-up methods	
– small spillage	Absorb or contain liquid with sand, earth or spill control material. Shovel material to labelled sealable container for safe disposal.
– large spillage	Transfer to a labelled container for product recovery or safe disposal. Otherwise treat as for small spillage.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing.
Storage	Keep container tightly closed and dry. Palletised loads should be stacked to a maximum of 4 high. Protect from heat, moisture and direct sunlight.
Storage temperatures	ambient

8. EXPOSURE CONTROLS / personal protection

Protective gloves and safety goggles

Respiratory protection	Not normally required. In a confined space wear half mask respirator with organic vapour cartridge and build-in particular filter NPF 20 (gas only). If product is applied by spraying wear self contained breathing apparatus.
Hand protection	nitride rubber gloves or butyl rubber gloves, gauntlet type
Eye protection	mono-goggles
Body protection	standard issue work clothes, safety boots

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Colour	clear/pale yellow
Odour	slight
Density	920 – 970 kg/m ³ at 25 °C (typical)
Dynamic viscosity	0.05 - 0.2 Pa·s at 25 °C
Flash point	170 °C
Ignition temperature	240 °C
Solubility in water	negligible

N-octanol/water partition coefficient data not available. 0 % organic solvents and water.

10. STABILITY / REACTIVITY

Stability	Stable under normal use conditions. Reacts with strong oxidising agents. Polymerises exothermically with amines, mercaptans and Lewis acids at ambient temperature and above. Polymerises in contact with bases (e.g. caustic soda), ammonia, primary and secondary amines, alcohols and acids.
Conditions to avoid	Caustic soda can induce a vaporous polymerisation at temperatures over 150 °C.
Materials to avoid	Strong oxidising agents. Caustic soda.

Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for assessment	Information given in based on data on the components and the toxicology of similar products.
Acute toxicity	
3-aminomethyl / 3,5,5-trimethylcyclohexane	
– oral	LD50 > 1030 mg/kg
Polyoxoalkylene	
– oral	LD50 > 2855 mg/kg
Eye irritation	strong caustic effect and strong irritant
Skin irritation	irritant
Respiratory irritation	not irritating
Skin sensitisation	skin sensitiser

12. ECOLOGICAL INFORMATION

Basis for assessment	Information given based on data on the components and the ecotoxicology of similar products.
Water hazard class 1	Slightly hazardous for water. Do not allow to reach ground water or sewage system.

13. DISPOSAL CONSIDERATIONS

Precautions	See section 8. Refer to section 7 before handling the product or containers.
Waste disposal	Recover or recycle if possible. Otherwise incineration or dispose to licensed contractor.
Product disposal	Drain container thoroughly. Rinse three times with suitable solvent. Treat rinses as for product disposal. After draining, vent in a safe place away from sparks and re. Send to drum re-use or metal recycling.
Local legislation	Product wastes within the scope of Directive 91/689/EEC. Control of Pollution Act 1974. Control of Pollution (Special waste) Regulations 1980. Environmental Protection Act 1990.

14. TRANSPORT INFORMATION

ADR / RID / Land transport	
Name	polyamines, liquid, corrosive, N.O.S.
Classification	8
UN number	2735
Packaging group	2
Kemler number	80
Classification	C corrosive

14. TRANSPORT INFORMATION continued

IMDG / Sea transport

Name	polyamines, liquid, corrosive, N.O.S.
Classification	8
UN Number	2735
Packaging group	2
Kemler code	80
Classification	C corrosive

ICAO / IATA / Air transport

Name	polyamines, liquid, corrosive, N.O.S.
Classification	8
UN Number	2735
Packaging group	2
Kemler code	80
Classification	C corrosive

15. REGULATORY INFORMATION

Label name	polyamines, liquid, corrosive; Epopox™ UVb
Classification	corrosive, irritant; dangerous for the environment
Labelling	C

Risk phrases	R21/22 Harmful in contact with skin and if swallowed. R34 Causes burns. R43 May cause sensitization by skin contact. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Safety phrases	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident seek medical advice. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
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Water Hazard class	1
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16. OTHER INFORMATION

Uses and restrictions	Compositions for the building and civil engineering industries e.g. flooring compounds, adhesives, mortars and solvent free high-solid coatings, laminating binders.
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MSDS distribution	This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of all persons involved with the product.
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DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as a guarantee of any specific property of the product.