

Amroy Europe Oy

Curing Agent

CURING AGENT

Amroy CA25
1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product name: Amroy CA25
 Product type: Curing Agent, Cycloaliphatic amine

Supplier: Amroy Europe Oy VAT No. FI19869654
 P. O. Box 144
 FI – 15101 Lahti, FINLAND www.amroy.fi

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2. COMPOSITION / DATA ON COMPONENTS

Preparation description: Cycloaliphatic amine blend

Dangerous components/constituents

CAS Number:

112-24-3	Triethyleneamine	0 – 50 %
	C, R21, R34, R43, R52/53	
2855-13-2	3-aminomethyl / 3,5,5-trimethylcyclohexylamine	0 – 50 %
	C, R34, R43	
15520-10-2	2-methyl / 1,5-pentanediamine	0 – 50 %
	C, R20/22, R34, R52/53	

3. HAZARDS IDENTIFICATION

C Corrosive
 R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 R34 Causes burns to the eyes and skin.
 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.
- Eye Do not delay. Flush eye 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.

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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, carbondioxide 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 materials enters drains it should be pumped out into a 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

Protection:	
– respiratory	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.
– hands	Nitrile rubber gloves or butyl rubber gloves, gauntlet type.
– eyes	Monogoggles.
– body	Standard issue work clothes, safety boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	clear / pale yellow
Odour:	Slight
Density:	920 – 1000 kg/m ³ at 25 °C (typical)
Dynamic viscosity:	0.05 – 0.2 Pa·s at 25 °C
Flash point:	over 100 °C
Ignition temperature:	over 200 °C
Solubility in water:	Negligible
N-octanol/ water partition coefficient:	Data not available

0 % Organic solvents and water!

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10. STABILITY / REACTIVITY

Stability:	Stable under normal use conditions. Reacts with monomers, resins and strong oxidising agents
Conditions to avoid:	Monomers, resins, water and oxidising agents
Materials to avoid:	As above
Hazardous decomposition products:	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.

Triethyleneamine

Acute toxicity - oral: LD50 > 2500 mg/kg

Polyoxoalkylene

Acute toxicity - oral: LD50 > 2855 mg/kg

Eye irritation:	Corrosive
Skin irritation:	Corrosive
Respiratory irritation:	Not irritating at ambient temperatures. Avoid breathing fumes.
Skin sensitisation:	Skin sensitizer.

12. ECOLOGICAL INFORMATION

Toxic to aquatic environment. 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 recovered or metal reclaimed.

14. TRANSPORT INFORMATION

Classification / ADR / RID

Name	Amines, liquid corrosive N.O.S (polyoxoalkyleneamine; EpoCure)
Class	8
Un Number	2735
Classification	C, N corrosive, toxic to aquatic environment
Kemler Number	80
Packaging group	3

IMDG / IATA air and sea transport

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15. REGULATORY INFORMATION

EC Label name	Polyamines, liquid, corrosive; Amroy CA25
EC Classification	Corrosive, irritant. Dangerous for the environment.
EC Symbols	C, N
EC Risk phrases	R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R34 Causes burns to eyes and skin. R43 May cause sensitisation by skin contact. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
EC Safety phrases	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable gloves and eye/face protection. S45 In case of accident seek medical advice S61 Avoid release to the environment

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. Composites industry curing agent for industrial useage.
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 the person in your organisation responsible for advising on safety matters.

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.

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Homepage

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