

Amroy Europe Oy

Curing Agent

CURING AGENT

Amroy CA40
1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product name	Amroy CA40	
Product type	Curing Agent, Cycloaliphatic amine	
Supplier	Amroy Europe Oy P. O. Box 144 FI – 15101 Lahti, FINLAND	VAT No. FI19869654 www.amroy.fi
Contact numbers/Emergency	Tel. +358 400 815 266 Fax. +358 20 711 8609 (production)	

2. COMPOSITION / DATA ON COMPONENTS

Preparation description Cycloaliphatic amine blend

Dangerous components/constituents

CAS Number

100-51-6	Benzyl alcohol	0 – 20 %
	Xn, R20/22	
9046-10-0	Polyoxoalkyleneamine	20 – 40 %
	C, R34	
112-24-3	Triethyleneamine	0 – 20 %
	C, R21, R34, R43, R52/53	
1477-55-0	M-xylene / alfa-diamine	20 – 40 %
	C, R20/22, R36	

3. HAZARDS IDENTIFICATION

C	Corrosive
R20/21/22	Irritating to eyes and skin. Harmful when swallowed or exposed internally.
R34	Causes burns to the eyes and skin.
R43	May cause sensitization by skin contact.
R52/53	Toxic to aquatic organism. 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, remove to fresh air.
– 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 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

Occupational exposure standards

None established.

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	nitride rubber gloves or butyl rubber gloves, gauntlet type
– eyes	mono-goggles
– 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 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)
Class	8
Un Number	2735
Classification	C, N Corrosive, Toxic to aquatic environment
Kemler Number	80
Packaging group	2
IMDG / IATA air and sea transport	
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15. REGULATORY INFORMATION

EC Label name	Polyamines, liquid, corrosive; Amroy CA40
EC Classification	Corrosive, irritant. Dangerous for the environment.
EC Symbols	C, N
EC Risk phrases	R21/22 Irritating to eyes and skin. Harmful when swallowed or exposed internally. R34 Causes burns to eyes and skin. R43 May cause sensitisation by skin contact. R52/53 Toxic to aquatic organism, may cause long-term adverse affects 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. Refer to special instructions/Safety data sheets.

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 usage.
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.

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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