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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2023

Version number 1

Revision: 16.01.2023

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

- · 1.1 Product identifier
- · Trade name: Epoxy Curing Agent
- · Article number: Cardolite LITE 3070
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- Product category PC9a Coatings and paints, thinners, paint removers
- · Application of the substance / the mixture Coating
- · 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: CARDOLITE SPECIALTY CHEMICALS EUROPE N.V. Wijmenstraat 21 K , Bus 2 9030 Mariakerke – Gent Tel. : +32 9 265.88.26 (Belgium) Fax. : +32 9 265.88.24 (Belgium) regulatory@cardolite.com eumsds@cardolite.com

· Further information obtainable from: Product safety department

• **1.4 Emergency telephone number:** During business hours: +32 9 265.88.26 (Belgium) 24 Hour Emergency: 800-424-9300 CHEMTREC

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

 GHS02 flame

 Flam. Liq. 3
 H226 Flammable liquid and vapour.

 Image: GHS05 corrosion

 Skin Corr. 1B
 H314 Causes severe skin burns and eye damage.

 Eye Dam. 1
 H318 Causes serious eye damage.

 Image: GHS07

 Skin Sens. 1
 H317 May cause an allergic skin reaction.

 • 2.2 Label elements

 • Labelling according to Regulation (EC) No 1272/2008

 The product is classified and labelled according to the CLP regulation.



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Printing date 16.01.2023 Version number 1 Revision: 16.01.2023 Trade name: Epoxy Curing Agent (Contd. of page 1) Hazard pictograms GHS02 GHS05 GHS07 · Signal word Danger · Hazard-determining components of labelling: 3-Aminopropyldimethylamine 3-aminomethyl-3,5,5-trimethylcyclohexylamine Hazard statements H226 Flammable liquid and vapour. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. · Precautionary statements P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P310 P321 Specific treatment (see on this label). P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · 2.3 Other hazards Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

EINEC	09-55-7 S: 203-680-9 number: 612-061-00-6	3-Aminopropyldimethylamine Flam. Liq. 3, H226; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	< 12.0%
EINEC Index r	2855-13-2 S: 220-666-8 number: 612-067-00-9 .: 01-2119514687-32-	3-aminomethyl-3,5,5-trimethylcyclohexylamine ♦ Skin Corr. 1B, H314; Eye Dam. 1, H318; ↑ Acute Tox. 4, H302; Skin Sens. 1A, H317 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	< 12.0%



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(Contd. of page 2) • Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
 Promptly isolate the scene by removing all person from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

 Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Keep respiratory protective device available.

- **7.2 Conditions for safe storage, including any incompatibilities** Keep container tightly closed and in a well ventilated place.
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls

Use local exhaust ventilation. Suitable respiratory equipment should be used in cases of insufficient ventilation.

- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection



Protective gloves

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(Contd. of page 4) The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties					
· 9.1 Information on basic physical and chemical properties					
 General Information 					
· Physical state	Fluid				
· Colour:	Amber coloured				
· Odour:	Amine-like				
· Odour threshold:	Not determined.				
 Melting point/freezing point: 	Undetermined.				
· Boiling point or initial boiling point and boiling					
range	Undetermined.				
· Flammability	Flammable.				
 Lower and upper explosion limit 					
· Lower:	Not determined.				
· Upper:	Not determined.				
· Flash point:	30 °C (109-55-7 3-Aminopropyldimethylamine)				
· Decomposition temperature:	Not determined.				
· pH at 25 ℃	11				
· Viscosity:					
· Kinematic viscosity	Not determined.				
· Dynamic at 25 °C:	830 cps				
Solubility	•				
· water:	Not miscible or difficult to mix.				
· Partition coefficient n-octanol/water (log value)	Not determined.				
· Vapour pressure:	Not determined.				
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Printing date 16.01.2023 Version number 1 Revision: 16.01.2023 Trade name: Epoxy Curing Agent (Contd. of page 5) · Density and/or relative density · Density at 25 °C: 0.963 g/cm³ Relative density Not determined. · Vapour density Not determined. · 9.2 Other information · Appearance: · Form: Liquid · Important information on protection of health and environment, and on safety. · Auto-ignition temperature: Product is not selfigniting. • Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Change in condition · Evaporation rate Not determined. · Information with regard to physical hazard classes · Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void Flammable liquids Flammable liquid and vapour. Flammable solids Void Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void Desensitised explosives Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Product is stable.
- **Thermal decomposition** / **conditions to be avoided:** No decomposition if used according to specifications.
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification: Irritating to eyes and skin.

109-55-7 3-Aminopropyldimethylamine

Oral LD50 1,870 mg/kg (rat)

Dermal LD50 490 mg/kg (rabbit)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral LD50 1,030 mg/kg (ATE)

• Skin corrosion/irritation Causes severe skin burns and eye damage.

- · Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

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Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	on
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN2734
 14.2 UN proper shipping name ADR IMDG, IATA 	2734 AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (3-Aminopropyldimethylamine, ISOPHORONEDIAMINE) AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (3-Aminopropyldimethylamine, ISOPHORONEDIAMINE)
· 14.3 Transport hazard class(es)	
· Class · Label	8 Corrosive substances. Miscellaneous dangerous substances and articles. 8+3
	0+0
Class	8 Corrosive substances.
· Label	8/3
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· IATA	
Class Label	8 Corrosive substances. 8 (3)
 14.4 Packing group ADR, IMDG, IATA 	11
· 14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Segregation Code 	Warning: Corrosive substances. 83 F-E,S-C (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
· Transport/Additional information:	
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2
· Tunnel restriction code	D/E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2734 AMINES, LIQUID, CORROSIVE F L A M M A B L E , N . O . S . (3 A M I N O P R O P Y L D I M E T H Y L A M I N E ISOPHORONEDIAMINE), 8 (3), II

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- · Department issuing SDS: Product safety department
- · Contact: Mr Eleazar dela Cruz
- · Date of previous version: 16.01.2023
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids Category 3
- Acute Tox. 4: Acute toxicity Category 4
- Skin Corr. 1B: Skin corrosion/irritation Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Skin Sens. 1: Skin sensitisation Category 1
- Skin Sens. 1A: Skin sensitisation Category 1A

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