

Revision: 30.04.2014

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

- · Product identifier
- · Trade name: Epoxy curing agent
- · Article number: Cardolite GX-6027
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · 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
- · 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

• Emergency telephone number: During business hours: +32 9 265.88.26 (Belgium)

2 Hazards identification

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

GHS05 corrosion

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

GHS07

× .	
Acute Tox. 4	H332 Harmful if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.
Classification ac	cording to Directive 67/548/EEC or Directive 1999/45/EC
C; Corrosive	
R34: Causes bu	rns.
Xn; Harmful	
R22: Harmful if	swallowed.
Xi; Sensitisin]
R43: May cause	e sensitisation by skin contact.
	erning particular hazards for human and environment:
	b be labelled due to the calculation procedure of the "General Classification guideline the EU" in the latest valid version.
	(Contd. on page 2)



Revision: 30.04.2014

(Contd. of page 1)

Trade name: Epoxy curing agent

 Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS05 GHS07 Signal word Danger Hazard-determining components of labelling: m-phenylenebis(methylamine) trimethylwexane-1.6-diamine Hazard statements H322 Harmful if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303-P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305-P351+P333 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see on this label). P405 Store locked up. P301 Dispose of contents/container in accordance with local/regional/national/international regulations. 	. Classification a	(Conto. of page 1)		
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· PBT: Not applicable.				
· VPVB: Not applicable.				
	• vPvB: Not applic	Cable.		

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

(Contd. on page 3)



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(Contd. of page 2)
20,0 - 25,0%
10,0 - 15,0%

• Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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: Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- 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: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

(Contd. on page 4)



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(Contd. of page 3)

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Ensure adequate ventilation.

- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection: No special measures required.
- 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.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- 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.
- · Exposure controls
- · 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. Do not inhale dust / smoke / mist.
- 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.
- Protection of hands:



Protective gloves

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 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



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(Contd. of page 4) 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 protection:



Tightly sealed goggles

· Body protection: Protective work clothing

chemical properties
Liquid Orange Amine-like Not determined.
Not determined.
Undetermined. Undetermined.
104 ℃
Not applicable.
Not determined.
Product is not selfigniting.
Product does not present an explosion hazard.
Not determined. Not determined.
Not determined.
1,01972 g/cm ³ Not determined. Not determined. Not determined.
Not miscible or difficult to mix.
ter): Not determined.



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Kinematic: • Other information Not determined. No further relevant information available.

10 Stability and reactivity

- · Reactivity
- Chemical stability Product is stable.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:
- Irritating to eyes and skin.

1477-55-0 m-phenylenebis(methylamine)

Oral LD50 1040 mg/kg (rat)

Inhalative LC50/4 h 2,4 mg/l (rat)

25620-58-0 trimethylhexane-1,6-diamine

Oral LD50 900 mg/kg (rat)

- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

- Harmful
- Corrosive
- Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

- · 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.

· UN-Number	
· ADR, IMDG, IATA	UN2735
· UN proper shipping name	
ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (phenylenebis (methylamine
	TRIMETHYLHEXAMETHYLENEDIAMINES)
·IMDG	AMINES, LIQUID, CORROSIVE, N.O.S. (
	phenylenebis (methylamine
	TRIMETHYLHEXAMETHYLENEDIAMINES), MARI POLLUTANT
·IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (
	phenylenebis (methylamine
	TRIMETHYLHEXAMETHYLENEDIAMINES)
· Transport hazard class(es)	
· ADR, IMDG	
· Class	8 Corrosive substances.
· Label	8
the second se	
8	
· Class	8 Corrosive substances.



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 Packing group ADR, IMDG, IATA 	II
 Environmental hazards: Marine pollutant: Special marking (ADR): 	Symbol (fish and tree) Symbol (fish and tree)
 Special precautions for user Danger code (Kemler): EMS Number: Segregation groups 	Warning: Corrosive substances. 80 F-A,S-B Alkalis
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	t II of Not applicable.
· Transport/Additional information:	
 ADR Limited quantities (LQ) Transport category Tunnel restriction code 	1L 2 E
· UN "Model Regulation":	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (m- phenylenebis (methylamine), TRIMETHYLHEXAMETHYLENEDIAMINES), 8, 11

15 Regulatory information

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.
- Hazard pictograms



· Signal word Danger

• **Hazard-determining components of labelling:** m-phenylenebis(methylamine) trimethylhexane-1,6-diamine

· Hazard statements

- H332 Harmful if inhaled.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
. Chomical cafety a	espectment: A Chamical Safety Accordment has not been carried out

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

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

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.

R20/22 Harmful by inhalation and if swallowed.

- R22 Harmful if swallowed.
- R34 Causes burns.

R43 May cause sensitisation by skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Department issuing MSDS: Product safety department

· Contact: Mr Eleazar dela Cruz

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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 Harmonized 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
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
- Skin Sens. 1: Sensitisation Skin, Hazard Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment Chronic Hazard, Category 3