



Printing date 25.01.2022 Version number 1 Revision: 25.01.2022

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

- · 1.1 Product identifier
- · Trade name: Epoxy Curing Agent
- · Article number: Cardolite NX-8402
- · 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

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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



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.

· Hazard pictograms





GHS05 GHS07

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· Signal word Danger

· Hazard-determining components of labelling:

salicylic acid

Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled

Ethylenediamine

m-Phenylenebis(methylamine)

· Hazard statements

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

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 Chemical characterisation: Mixtures

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

· Dangerous components:		
CAS: 69-72-7 EINECS: 200-712-3 Index number: 607-732-00-5 Reg.nr.: 01-2119486984-17-xxxx	salicylic acid ♦ Repr. 2, H361d; ♦ Eye Dam. 1, H318; ↑ Acute Tox. 4, H302	< 3.0%
CAS: 90-72-2 EINECS: 202-013-9 Index number: 603-069-00-0	2,4,6-Tris(Dimethylaminomethyl)Phenol Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 3.0%
CAS: 10563-29-8 EINECS: 234-148-4	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine • Acute Tox. 4, H312	< 3.0%
CAS: 8007-24-7 EC number: 700-991-6 Reg.nr.: 01-2119502450-57-0000	Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1A, H317	< 2.0%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-0000	m-Phenylenebis(methylamine) Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	< 1.0%

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CAS: 107-15-3	Ethylenediamine	< 0.59
EINECS: 203-468-6 Index number: 612-006-00-6	♦ Flam. Liq. 3, H226; ♦ Resp. Sens. 1, H334; ♦ Skin Corr. 1B, H314; ♠ Acute Tox. 4, H302; Acute Tox. 4, H312;	
Reg.nr.: 01-2119480383-37-0012		
	Phenol	< 0.5%
EINECS: 203-632-7 Index number: 604-001-00-2	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; STOT RE 2, H373; Skin Corr.	
Reg.nr.: 01-2119471329-32-0080		
· SVHC		
107-15-3 Ethylenediamine		

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: If symptoms persist consult doctor.
- · 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: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 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: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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· 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.

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: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- 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
- · Additional information about design of technical facilities: No further data; see item 7.

108-95-2 Phenol

IOELV Short-term value: 16 mg/m³, 4 ppm

Long-term value: 8 mg/m³, 2 ppm

Skin

· DNELs

8007-24-7 Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled

Oral	DNEL	0.25 mg/kg/day (General Population)
Dermal	DNEL	0.25 mg/kg/day (General Population)

0.5 mg/kg/day (Workers)

Inhalative | DNEL | 0.2 mg/m3 (General Population)

0.88 mg/m3 (Workers)

· PNECs

8007-24-7 Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled

PNEC 3 µg/I (Aqua (freshwater))

30 µg/l (Agua (intermittent release))

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PNEC 10 mg/kg (Oral)

0.97 mg/kg (Sediment (freshwater)) 0.088 mg/kg (Sediment (marine water))

6.71 mg/kg (Soil)

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

Avoid contact with the skin.

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 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

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SECTION 9: Physical and chem	ical properties
 9.1 Information on basic physical and General Information Appearance: 	chemical properties
Form:	Liquid
Colour:	Cream coloured
· Odour:	Amine-like
· Odour threshold:	Not determined.
· pH-value at 25 °C:	9.6
 Change in condition Melting point/freezing point: Initial boiling point and boiling rang 	Undetermined. e: Undetermined.
· Flash point:	101 ℃
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 25 °C:	1.0451 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	
· Viscosity:	Tot dotominod.
Dynamic at 25 °C:	15,000 - 25,000 cps
Kinematic:	Not determined.
· Solvent content:	
Solids content:	50.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.





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- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

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.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

Irritating to eyes and skin.

Oral LD50 891 mg/kg (rat) 90-72-2 2,4,6-Tris(Dimethylaminomethyl)Phenol Oral LD50 2,169 mg/kg (rat) Dermal LD50 1,260 mg/kg (rabbit) 8007-24-7 Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled Oral LD50 >2,000 mg/kg (rat) Dermal LD50 2,000 mg/kg (rat) 1477-55-0 m-Phenylenebis(methylamine) Oral LD50 1,040 mg/kg (rat) Inhalative LC50/4 h 2.4 mg/l (rat) 107-15-3 Ethylenediamine Oral LD50 866 mg/kg (rat) Dermal LD50 560 mg/kg (rabbit) Inhalative LC50/4 h 14.7 mg/l (rat) 108 05 2 Rhonel	69-72-7 sa	alicylic aci	id
Oral LD50 2,169 mg/kg (rat) Dermal LD50 1,260 mg/kg (rabbit) 8007-24-7 Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled Oral LD50 >2,000 mg/kg (rat) Dermal LD50 2,000 mg/kg (rat) 1477-55-0 m-Phenylenebis(methylamine) Oral LD50 1,040 mg/kg (rat) Inhalative LC50/4 h 2.4 mg/l (rat) 107-15-3 Ethylenediamine Oral LD50 866 mg/kg (rat) Dermal LD50 560 mg/kg (rabbit) Inhalative LC50/4 h 14.7 mg/l (rat)	Oral	LD50	891 mg/kg (rat)
Dermal LD50 1,260 mg/kg (rabbit) 8007-24-7 Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled Oral LD50 >2,000 mg/kg (rat) Dermal LD50 2,000 mg/kg (rat) 1477-55-0 m-Phenylenebis(methylamine) Oral LD50 1,040 mg/kg (rat) Inhalative LC50/4 h 2.4 mg/l (rat) 107-15-3 Ethylenediamine Oral LD50 866 mg/kg (rat) Dermal LD50 560 mg/kg (rabbit) Inhalative LC50/4 h 14.7 mg/l (rat)	90-72-2 2,	4,6-Tris(D	imethylaminomethyl)Phenol
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107-15-3 Ethylenediamine Oral LD50 866 mg/kg (rat) Dermal LD50 560 mg/kg (rabbit) Inhalative LC50/4 h 14.7 mg/l (rat)	Oral	LD50	1,040 mg/kg (rat)
Oral LD50 866 mg/kg (rat) Dermal LD50 560 mg/kg (rabbit) Inhalative LC50/4 h 14.7 mg/l (rat)	Inhalative	LC50/4 h	2.4 mg/l (rat)
Dermal LD50 560 mg/kg (rabbit) Inhalative LC50/4 h 14.7 mg/l (rat)	107-15-3 E	Ethylened	iamine
Inhalative LC50/4 h 14.7 mg/l (rat)	Oral	LD50	866 mg/kg (rat)
	Dermal	LD50	560 mg/kg (rabbit)
109.05.2 Phonol	Inhalative	LC50/4 h	14.7 mg/l (rat)
100-35-2 FIREHUI	108-95-2 F	Phenol	,
Oral LD50 317 mg/kg (rat)	Oral	LD50	317 mg/kg (rat)
Dermal LD50 850 mg/kg (rabbit)	Dermal	LD50	850 mg/kg (rabbit)

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Causes serious eye damage.

- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

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- · 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.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

8007-24-7 Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled

EC50 1,300 mg/l (Algae) LL50 1,000 mg/l (Fish)

- · 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.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · **vPvB**: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Non-hazardous for transport
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Non-hazardous for transport
· 14.3 Transport hazard class(es)	
· ADR · Class	Non-hazardous for transport Miscellaneous dangerous substances and articles.
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· ADN/R Class:	Non-hazardous for transport
· 14.4 Packing group · ADR, IMDG, IATA	Non-hazardous for transport
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
 14.7 Transport in bulk according to Ann Marpol and the IBC Code 	nex II of Not applicable.
· UN "Model Regulation":	Non-hazardous for transport

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.
- · Hazard pictograms





GHS05 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

salicylic acid

Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled

Ethylenediamine

m-Phenylenebis(methylamine)

· Hazard statements

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.

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· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

107-15-3 Ethylenediamine

Candidate list

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· 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.

- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

107-15-3 Ethylenediamine

· 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.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H341 Suspected of causing genetic defects.
- H361d Suspected of damaging the unborn child.

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H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: Product safety department

· Contact: Mr Eleazar dela Cruz

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Lig. 3: Flammable liquids - Category 3

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A

Muta. 2: Germ cell mutagenicity - Category 2 Repr. 2: Reproductive toxicity - Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3