

Version 2

Reviewed on 06/13/2017

# 1 Identification

Printing date 06/13/2017

- · Product identifier
- Product Description: <u>Epoxy Curing Agent</u>
- · Product code: Cardolite NX-6019
- · Application of the substance / the mixture Coating
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Cardolite Corporation 11 Deer Park Drive, Suite 124 Monmouth Junction, NJ 08852 USA Tel: (973) 344-5015 Regulatory@cardolite.com
- · Information department: Product safety department
- · Emergency telephone number: 24 Hour Emergency: 800-424-9300 CHEMTREC

#### 2 Hazard(s) identification

#### · Classification of the substance or mixture

GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Danger

#### · Hazard-determining components of labeling:

Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled 3-Aminopropyldimethylamine m-Phenylenebis(methylamine) Ethylenediamine

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<ul> <li>Hazard stat</li> </ul>	lements
H315 Cause	es skin irritation.
	es serious eye damage.
	ause allergy or asthma symptoms or breathing difficulties if inhaled.
	ause an allergic skin reaction.
<ul> <li>Precaution</li> </ul>	ary statements
P284	[In case of inadequate ventilation] wear respiratory protection.
P261	Avoid breathing dust/fume/gas/mist/vapors/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).
P501	Dispose of contents/container in accordance with local/regional/national/international
o	regulations.
Classificati	
· NFPA rating	gs (scale 0 - 4)
	Health = 2
	Fire = 1
$\langle 2 \times 0 \rangle$	Reactivity = $0$
$\checkmark$	
· HMIS-rating	gs (scale 0 - 4)
HEALTH 2	Health = $2$
	Fire = 1
	rodoliny = 0
· Other haza	rds
· Results of	PBT and vPvB assessment
· PBT: Not ap	oplicable.

• **vPvB:** Not applicable.

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerou	is Components:	
8007-24-7	Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled Eye Dam. 1, H318;  Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1A, H317	18.0 - 21.0%
90-72-2	2,4,6-Tris(Dimethylaminomethyl)Phenol	3.0 - 4.0%
109-55-7	3-Aminopropyldimethylamine ♦ Flam. Liq. 3, H226; ♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Skin Sens. 1, H317	2.0 - 3.0%
1477-55-0	m-Phenylenebis(methylamine) Skin Corr. 1B, H314; () Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1B, H317	1.0 - 2.0%
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#### Product Description: Epoxy Curing Agent

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108-95-2	Phenol	0.6 - 0.9%
	♦ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ♦ Muta. 2, H341; STOT RE 2, H373; ♦ Skin Corr. 1B, H314	
107-15-3	Ethylenediamine ♦ Flam. Liq. 3, H226; ♦ Resp. Sens. 1, H334; ♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	0.6 - 0.9%

## 4 First-aid measures

- 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.
- · 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 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- 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.

- 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.

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#### 7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: No special measures required.
- · 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 receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

#### • Components with limit values that require monitoring at the workplace:

#### 1477-55-0 m-Phenylenebis(methylamine)

REL Short-term value: C 0.1 mg/m<sup>3</sup> Skin

TLV Short-term value: C 0.1 mg/m<sup>3</sup> Skin

#### 108-95-2 Phenol

PEL 19 mg/m<sup>3</sup>, 5 ppm Skin
REL Short-term value: C60\* mg/m<sup>3</sup>, C 15.6\* ppm Long-term value: 19 mg/m<sup>3</sup>, 5 ppm \*15-min; Skin
TLV 19 mg/m<sup>3</sup>, 5 ppm

# Skin; BEI

#### Ingredients with biological limit values:

#### 108-95-2 Phenol

BEI 250 mg/g creatinine Medium: urine Time: end of shift

#### Parameter: Phenol with hydrolysis (background, nonspecific)

· Additional information: The lists that were valid during the creation 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. Avoid contact with the skin. Avoid contact with the eyes and skin.

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#### **Product Description: Epoxy Curing Agent**

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Red-brown	
Odor:	Amine-like	
Odor threshold:	Not determined.	
pH-value at 25 ℃ (77 ℉):	10.5	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	> 104 °C (> 219 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	



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Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 25 ℃ (77 °F):	0.986 g/cm <sup>3</sup> (8.228 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wa	ater): Not determined.
Viscosity:	
Dynamic at 25 ℃ (77 °F):	1250 cps
Kinematic:	Not determined.
Solvent content:	
VOC content:	0.1 %
Other information	No further relevant information available.

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- 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:
- $\cdot$  LD/LC50 values that are relevant for classification:
- Irritating to eyes and skin.

8007-24-	7 Cashew	v (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled
Oral	LD50	500 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (daphnia)
108-95-2	Phenol	
Oral	LD50	317 mg/kg (rat)
Dermal	LD50	850 mg/kg (rabbit)
107-15-3	Ethylene	diamine
Oral	LD50	500 mg/kg (rat)
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Damaal				0)	ontd. of page 6)
Dermal	LD50	730 mg/kg (rabbit)			
Inhalative	LC50/4 h	0.3 mg/l (mouse)			
· Primary i	rritant effe	ect:			
		to skin and mucous me			
		rritant with the danger of			
		itization possible throug	h skin contact.		
		gical information:			····
I he prod preparatio		the following dangers	according to internal	ly approved calculation	methods for
Irritant	/15.				
0					
· Carcinog		•			
		ories Agency for Research	on Cancer)		
	ernational	•	on Cancer)		3
• IARC (Int 108-95-2	ernational Phenol	•	on Cancer)		3
• IARC (Int 108-95-2 • NTP (Nat	ernational Phenol ional Toxi	Agency for Research	on Cancer)		3
<ul> <li>IARC (Int 108-95-2</li> <li>NTP (Nat None of th</li> </ul>	ernational Phenol ional Toxi ne ingredie	Agency for Research cology Program)			3

#### 12 Ecological information

#### · Toxicity

Aquatic toxicity:

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

EC50 1300 mg/l (Algae)

- LL50 1000 mg/l (Fish)
- · Persistence and degradability No further relevant information available.
- · Behavior 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 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of 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 of together with household garbage. Do not allow product to reach sewage system.

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(Contd. of page 7) DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. Any disposal of this material must be in compliance with all applicable laws and regulations.

#### · Uncleaned packagings:

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• **Recommendation:** Disposal must be made according to official regulations.

Transport information	
UN-Number DOT, ADR, IMDG, IATA	Non-hazardous for transport
UN proper shipping name DOT, ADR, IMDG, IATA	Not regulated as dangerous goods. Non-hazardous for transport
Transport hazard class(es)	
DOT, IMDG, IATA Class Label	Non-hazardous for transport
ADR Class	Non-hazardous for transport Miscellaneous dangerous substances and articles
Label ADN/R Class:	- N/A
Packing group DOT, ADR, IMDG, IATA	Non-hazardous for transport
Environmental hazards: Marine pollutant:	No
Special precautions for user Danger code (Kemler):	Not applicable.
Transport in bulk according to Ann MARPOL73/78 and the IBC Code	ex II of Not applicable.
UN "Model Regulation":	UN-, -

#### 15 Regulatory information

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

	<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>
	108-95-2 Phenol
	107-15-3 Ethylenediamine
	· Section 313 (Specific toxic chemical listings):
	108-95-2 Phenol
	• TSCA (Toxic Substances Control Act): contains a substance subject to a Significant New Use Rule at U.S. 40 CFR 721.10058
	All ingredients are listed.
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	known to cause cancer:	
None of the	ingredients is listed.	
Chemicals	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemicals	known to cause developmental toxicity:	
None of the	ingredients is listed.	
Carcinogen	nic categories	
EPA (Envir	onmental Protection Agency)	
108-95-2 P	henol	
107-15-3 E	thylenediamine	
TLV (Thres	hold Limit Value established by ACGIH)	
108-95-2 P	henol	
107-15-3 E	thylenediamine	
NIOSH-Ca (	(National Institute for Occupational Safety and Health)	· · · ·
None of the	ingredients is listed.	
	elements is classified and labeled according to the Globally Harmonized Systograms	stem (GHS).
The product Hazard pict	is classified and labeled according to the Globally Harmonized System	stem (GHS).
The product Hazard pict	t is classified and labeled according to the Globally Harmonized Systems	stem (GHS).
The product Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj	t is classified and labeled according to the Globally Harmonized Systems and Danger ermining components of labeling: hacardium occidentale) Nutshell Extract, decarboxylated, Distilled pyldimethylamine	stem (GHS).
The product Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj m-Phenylen	t is classified and labeled according to the Globally Harmonized Systems and Danger ermining components of labeling: hacardium occidentale) Nutshell Extract, decarboxylated, Distilled pyldimethylamine ebis(methylamine)	stem (GHS).
The product Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj	t is classified and labeled according to the Globally Harmonized Systems and Danger ermining components of labeling: hacardium occidentale) Nutshell Extract, decarboxylated, Distilled pyldimethylamine ebis(methylamine) mine	stem (GHS).
The product Hazard pict Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj m-Phenylen Ethylenedian Hazard stat H315 Cause	t is classified and labeled according to the Globally Harmonized Systematics tograms aHS08 d Danger ermining components of labeling: nacardium occidentale) Nutshell Extract, decarboxylated, Distilled pyldimethylamine ebis(methylamine) mine tements es skin irritation.	stem (GHS).
The product Hazard pict Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj m-Phenylen Ethylenedian Hazard stat H315 Cause H318 Cause	t is classified and labeled according to the Globally Harmonized Systems and Danger ermining components of labeling: hacardium occidentale) Nutshell Extract, decarboxylated, Distilled pyldimethylamine ebis(methylamine) mine tements es skin irritation. es serious eye damage.	
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The product Hazard pict Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj m-Phenylen Ethylenediat Hazard stat H315 Cause H318 Cause H318 Cause H317 May c Precaution	t is classified and labeled according to the Globally Harmonized Systematics tograms ABS08 d Danger ermining components of labeling: hacardium occidentale) Nutshell Extract, decarboxylated, Distilled pyldimethylamine ebis(methylamine) mine tements es skin irritation. es serious eye damage. ause allergy or asthma symptoms or breathing difficulties if inhaled ause an allergic skin reaction. ary statements	J.
The product Hazard pict Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj m-Phenylen Ethylenediat Hazard stat H315 Cause H318 Cause H318 Cause H317 May c Precaution P284	t is classified and labeled according to the Globally Harmonized Systematics tograms albox d Danger ermining components of labeling: hacardium occidentale) Nutshell Extract, decarboxylated, Distilled pyldimethylamine ebis(methylamine) mine tements es skin irritation. es serious eye damage. ause allergy or asthma symptoms or breathing difficulties if inhaled ause an allergic skin reaction. ary statements [In case of inadequate ventilation] wear respiratory protection	J.
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The product Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoprop m-Phenylen Ethylenediat H315 Cause H318 Cause H318 Cause H318 Cause H317 May c Precaution P284 P261 P305+P351	is classified and labeled according to the Globally Harmonized Systems in Second Danger ermining components of labeling: hacardium occidentale) Nutshell Extract, decarboxylated, Distilled pyldimethylamine ebis(methylamine) mine tements es skin irritation. es serious eye damage. ause allergy or asthma symptoms or breathing difficulties if inhaled ause an allergic skin reaction. ary statements [In case of inadequate ventilation] wear respiratory protection Avoid breathing dust/fume/gas/mist/vapors/spray +P338 If in eyes: Rinse cautiously with water for several minutes. I present and easy to do. Continue rinsing.	d. on.
The product Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj m-Phenylen Ethylenediat Hazard stat H315 Cause H318 Cause H318 Cause H317 May c Precaution P284 P261 P305+P351 P310	is classified and labeled according to the Globally Harmonized Systems in Solar Sol	d. on.
The product Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj m-Phenylen Ethylenediat H315 Cause H318 Cause H318 Cause H317 May c Precaution P284 P261 P305+P351 P310 P321	is classified and labeled according to the Globally Harmonized Systems in Solution Statements acardium occidentale) Nutshell Extract, decarboxylated, Distilled pyldimethylamine ebis(methylamine) mine tements es skin irritation. es serious eye damage. ause allergy or asthma symptoms or breathing difficulties if inhaled ause an allergic skin reaction. ary statements [In case of inadequate ventilation] wear respiratory protection Avoid breathing dust/fume/gas/mist/vapors/spray +P338 If in eyes: Rinse cautiously with water for several minutes. I present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label).	d. on. Remove contact lense
The product Hazard pict GHS05 G Signal word Hazard-det Cashew (An 3-Aminoproj m-Phenylen Ethylenediat Hazard stat H315 Cause H318 Cause H318 Cause H317 May c Precaution P284 P261 P305+P351 P310	is classified and labeled according to the Globally Harmonized Systems in Solar Sol	d. on. Remove contact lense

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

#### 16 Other information

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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.

- · Department issuing SDS: Product safety department
- · Contact: Mr Eleazar dela Cruz
- · Date of preparation / last revision 06/13/2017 / 1

· 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TVL: Treshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit BEL: Biological Exposure Limit** Flam. Liq. 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. 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Skin Sens. 1B: Skin sensitisation - Category 1B Muta. 2: Germ cell mutagenicity - Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

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