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Safety Data Sheet acc. to OSHA HCS

Printing date 06/30/2021

Version 4

Reviewed on 06/30/2021

1 Identification

· Product identifier

- · Product Description: Polyol Resin
- · Product code: Cardolite NX-9102
- Application of the substance / the mixture Coating Resin Intermediate Coating
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Cardolite Corporation 140 Wharton Road Bristol, PA 19007 United States Tel: 1-800-322-7365 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		
Carc. 2H351 Suspected of causing cancer.STOT RE 2H373 May cause damage to organs through prolonged or repeated exposure.		
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). (Contd. on page 2) 		



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Product Description: Polyol Resin (Contd. of page 1) · Hazard pictograms GHS05 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled 2.2'-iminodiethanol 2-aminoethanol Hazard statements H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. · Precautionary statements 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. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 1Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH *3 Health = *3 1 Fire = 1FIRE Reactivity = 0REACTIVITY 0 · Other hazards Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.



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< 10.0%

< 5.0%

3 Composition/information on ingredients					
		 Chemical characterization: Mixtures Description: Mixture of the substances listed below with nonhazardous additions. 			
	· Dangerous	s Components:			
	8007-24-7	Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled			
		Sashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1A, H317			
	111-42-2	2,2'-iminodiethanol			
		🚸 Carc. 2, H351; STOT RE 2, H373; 🤣 Eye Dam. 1, H318; 🕔 Acute Tox. 4,			

H302; Skin Irrit. 2, H315 141-43-5 2-aminoethanol < 3.0% ♦ Skin Corr. 1B, H314; ↑ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Flam. Liq. 4, H227

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.



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· Environmental precautions: Do not allow to enter sewers/ surface or ground water.	(10 /
 Methods and material for containment and cleaning up: 	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sa	awdust).
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.	
 Protective Action Criteria for Chemicals 	
· PAC-1:	
111-42-2 2,2'-iminodiethanol	3 mg/m ³
141-43-5 2-aminoethanol	6 ppm
· PAC-2:	
111-42-2 2,2'-iminodiethanol	28 mg/m ³
141-43-5 2-aminoethanol	170 ppm
· PAC-3:	
111-42-2 2,2'-iminodiethanol	130 mg/m ³
141-43-5 2-aminoethanol	1,000 ppm

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
- 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 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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

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111-42-2 2,2'-iminodiethanol REL Long-term value: 15 mg/m³, 3 ppm

TLV Long-term value: 1* mg/m³, 0.2* ppm Skin; *inhalable fraction and vapor

141-43-5 2-aminoethanol

PEL Long-term value: 6 mg/m³, 3 ppm

- REL Short-term value: 15 mg/m³, 6 ppm
- Long-term value: 8 mg/m³, 3 ppm
- TLV Short-term value: 15 mg/m³, 6 ppm Long-term value: 7.5 mg/m³, 3 ppm

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

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

- · 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.
- · 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.

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· Eye protection:

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Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical prope	
 Information on basic physical and General Information Appearance: 	chemical properties
Form:	Liquid
Color:	Red-brown
· Odor:	Mineral-oil-like
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	> 100 °C (> 212 °F)
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· 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):	1.00116 g/cm ³ (8.35468 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	ter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
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· Other information

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No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · 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 that are relevant for classification: Irritating to eyes and skin.

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

- Oral LD50 >2,000 mg/kg (rat)
- Dermal LD50 2,000 mg/kg (rat)
- 111-42-2 2,2'-iminodiethanol
- Oral LD50 1,600 mg/kg (rat)
- Dermal LD50 12,200 mg/kg (rabbit)

141-43-5 2-aminoethanol

- Oral LD50 2,050 mg/kg (rat)
- Dermal LD50 1,000 mg/kg (rabbit)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Irritant

· Carcinogenic categories

 IARC (International Agency for Research on Cancer) 	
111-42-2 2,2'-iminodiethanol	
NTD (National Taxiaalagy Bragram)	

NTP (National Toxicology Program)

None of the ingredients is listed.

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· 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)

- 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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

· 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.
- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- · DOT, ADR, ADN, IMDG, IATA

Non-hazardous for transport

- UN proper shipping name
- · DOT, ADR, ADN, IMDG, IATA
- Non-hazardous for transport

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Transport hazard class(es)	
DOT, ADN, IMDG, IATA Class	Non-hazardous for transport
ADR Class	Non-hazardous for transport Miscellaneous dangerous substances and articles
Packing group DOT, ADR, IMDG, IATA	Non-hazardous for transport
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
UN "Model Regulation":	Non-hazardous for transport

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

111-42-2 2,2'-iminodiethanol

· TSCA (Toxic Substances Control Act):

CNSL polyol polymer

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

111-42-2 2,2'-iminodiethanol

141-43-5 2-aminoethanol

· Proposition 65

· Chemicals known to cause cancer:

111-42-2 2,2'-iminodiethanol

· 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.

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· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

111-42-2 2,2'-iminodiethanol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· 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 2,2'-iminodiethanol 2-aminoethanol Hazard statements

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

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.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 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.

- · Department issuing SDS: Product safety department
- Contact: Mr Eleazar dela Cruz
- \cdot Date of preparation / last revision 06/30/2021 / 3

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 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) 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 Flam. Liq. 4: Flammable liquids - Category 4 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 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Carc. 2: Carcinogenicity - Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 US