

Safety Data Sheet acc. to OSHA HCS

Version 2

Reviewed on 04/20/2016

1 Identification

- · Product identifier
- Product Description: Modified polyamide
- · Product code: Cardolite NT-1550
- · 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: (609)-436-0902 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

GHS05 Corrosion

- Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.



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



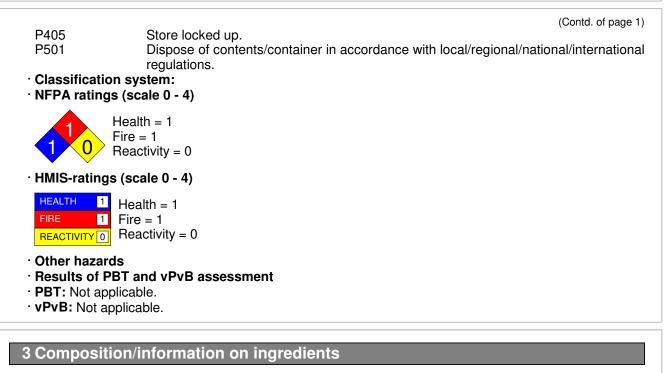
- · Signal word Danger
- Hazard-determining components of labeling: 3,6-diazaoctanethylenediamin
- Hazard statements
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- · Precautionary statements
- P260 Do not breathe dusts or mists.
- P303+P361+P353 If on skin (or hair): 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.
- P310 Immediately call a POISON CENTER/doctor.

US



Reviewed on 04/20/2016

Product Description: Modified polyamide



· Chemical characterization: Mixtures

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

· Dangerous	components:
-------------	-------------

100-51-6 Benzyl alcohol	15.0 - 35.0%
Acute Tox. 4, H302; Acute Tox. 4, H332	
112-24-3 3,6-diazaoctanethylenediamin	< 5.0%
🚸 Skin Corr. 1B, H314; 🚸 Acute Tox. 4, H312; Skin Sens. 1, H317	

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: Drink copious amounts of water and provide fresh air. Immediately call a 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.

(Contd. on page 3)



Reviewed on 04/20/2016

Product Description: Modified polyamide

- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- 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.

6 Accidental release measures

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

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: Keep respiratory protective device available.
- 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:

100-51-6 Benzyl alcohol

WEEL Long-term value: 10 ppm

112-24-3 3,6-diazaoctanethylenediamin

WEEL Long-term value: 6 mg/m³, 1 ppm Skin

(Contd. on page 4)



(Contd. of page 2)

US



Reviewed on 04/20/2016

Product Description: Modified polyamide

· 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 eyes. 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.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

 Information on basic physical and General Information 	chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Amber colored	
· Odor:	Amine-like	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
		(Contd. on page 5

JS –



(Contd. of page 3)



Reviewed on 04/20/2016

Product Description: Modified polyamide

	(Contd. of page 4)
Boiling point/Boiling range:	Undetermined.
· Flash point:	101 °C (214 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure:	Not determined.
[.] Density at 25 ℃ (77 ℉): [.] Relative density [.] Vapor density [.] Evaporation rate	1.00175 g/cm ³ (8.36 lbs/gal) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not determined.
 · Viscosity: Dynamic at 25 ℃ (77 °F): Kinematic: · Other information 	4000 cps Not determined. 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.

100-51-6 Benzyl alcohol

Oral LD50 1230 mg/kg (rat)

Dermal LD50 2000 mg/kg (rabbit)

(Contd. on page 6)

US



Safety Data Sheet acc. to OSHA HCS

Version 2

Reviewed on 04/20/2016

Product Description: Modified polyamide

	(Contd. of page 5)
112-24-3	3,6-diazaoctanethylenediamin
Oral	D50 2500 mg/kg (rat)
Dermal	D50 805 mg/kg (rabbit)
Primary	irritant effect:
on the s	kin: Caustic effect on skin and mucous membranes.
on the e	
	iustic effect.
	itant with the danger of severe eye injury.
	ation: Sensitization possible through skin contact.
	al toxicological information:
	luct shows the following dangers according to internally approved calculation methods for
preparat Corrosiv	
Irritant	
Swallow	ng will lead to a strong caustic effect on mouth and throat and to the danger of perforation of us and stomach.
Carcino	jenic categories
IARC (In	ternational Agency for Research on Cancer)
None of	he ingredients is listed.
NTP (Na	tional Toxicology Program)
None of	he ingredients is listed.
OSHA-C	a (Occupational Safety & Health Administration)
None of	he ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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.

(Contd. on page 7)

US

(Contd. of page 6)



Safety Data Sheet acc. to OSHA HCS

Version 2

Reviewed on 04/20/2016

Product Description: Modified polyamide

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

UN-Number	
DOT, ADR, IMDG, IATA	UN2735
UN proper shipping name DOT, IATA ADR	Amines, liquid, corrosive, n.o.s. (Triethylenetetramine) 2735 Amines, liquid, corrosive, n.o. (Triethylenetetramine)
IMDG	AMINES, LIQUID, CORROSIVE, N.O. (TRIETHYLENETETRAMINE)
Transport hazard class(es)	
DOT	
CORROSIVE 8	
Class Label	8 Corrosive substances 8
ADR	
Class	8 Corrosive substances Miscellaneous dangerous substances and articles
Label	8
IMDG, IATA	
Class Label	8 Corrosive substances 8
Packing group DOT, ADR, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user Danger code (Kemler): EMS Number: Segregation groups Stowage Category	Warning: Corrosive substances 80 F-A,S-B Alkalis A



Reviewed on 04/20/2016

Product Description: Modified polyamide

	(Contd. of page
Segregation Code	SG35 Stow "separated from" acids.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Il of Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S (TRIETHYLENETETRAMINE), 8, III

15 Regulatory information

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

- · Section 355 (extremely hazardous substances):
- None of the ingredients is listed.
- · Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.
- · TSCA (Toxic Substances Control Act):
- All ingredients are listed.
- · Proposition 65
- · Chemicals 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.

· Carcinogenic categories

- · EPA (Environmental Protection Agency)
- None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH)
- None of the ingredients is listed.

(Contd. on page 9)

US



Safety Data Sheet acc. to OSHA HCS

Version 2

Reviewed on 04/20/2016

Product Description: Modified polyamide

	(Contd. of page National Institute for Occupational Safety and Health)
	ingredients is listed.
GHS label e	lements is classified and labeled according to the Globally Harmonized System (GHS).
	\checkmark
	
GHS05 G	HS07
G11505 G	
Signal word	l Danger
Hazard-dete	ermining components of labeling:
	anethylenediamin
Hazard stat	ements
H314 Cause	s severe skin burns and eye damage.
H317 May c	ause an allergic skin reaction.
Precautiona	ary statements
P260	Do not breathe dusts or mists.
P303+P361-	P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin w water/shower.
P305+P351-	P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses
	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P310 P405	Immediately call a POISON CENTER/doctor. Store locked up.
P310	Immediately call a POISON CENTER/doctor.

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
- · Date of preparation / last revision 04/20/2016 / 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

(Contd. on page 10)

Safety Data Sheet acc. to OSHA HCS

Version 2

Reviewed on 04/20/2016

Product Description: Modified polyamide

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 (Contd. of page 9)

US -

