

Safety Data Sheet acc. to OSHA HCS

Version 3

Reviewed on 01/05/2018

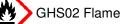
1 Identification

Printing date 01/05/2018

- · Product identifier
- · Product Description: Epoxy Curing Agent
- · Product code: Cardolite LITE 2562
- · 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



Flam. Liq. 3 H226 Flammable liquid and vapor.

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.



Skin Irrit. 2H315 Causes skin irritation.Skin Sens. 1H317 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

(Contd. on page 2)

US



Version 3

Reviewed on 01/05/2018

Product Description: Epoxy Curing Agent

(Contd. of page 1 • Hazard-determining components of labeling: Butanol Ethylenediamine • Hazard statements H226 Flammable liquid and vapor. H315 Causes skin irritation. H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. 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, i present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P501 Dispose of contents/container in accordance with local/regional/national/internationa regulations. • Classification system: • NFPA ratings (scale 0 - 4) ■ Kine = 3 Reactivity = 0 • HMIS-ratings (scale 0 - 4) ■ Kine = 3 Reactivity = 0 • Other hazards ■ Reactivity = 0 • Other hazards ■ Resplicable.	Hazard-determining components of labeling: Butanol Ethylenediamine Hazard statements H226 Flammable liquid and vapor. H315 Causes serious eye damage. H334 May cause allergic skin reaction. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P211 Use explosion-proof electrical/ventilating/lighting/equipment. P303-P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wit 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. P300 Bissignations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 MIMS-ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 Cher hazards Results of PBT and vPvB assessment PBT: Not applicable. VPWB: Not applicable. VPWB: Not applicable. Composition/information on ingredients Chemical characterization: Mixtures Description: Mixture of the substances listed below with nonhazardous additions. Dangerous Components: 1330-20-7 Xylenes A Flam: Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. Z. 0- 9.0% P Flam. Liq. 3, H226; Ye Dam. 1, H318; Ye Acute Tox. 4, H32; Skin Irrit. Z. 0- 9.0%			
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Chemical characterization: Mixtures	 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 71-36-3 Butanol 7.0 - 9.0% Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 	•	•	
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🔞 Flam. Liq. 3, H226; 😲 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit.	♦ Flam. Liq. 3, H226; ♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	71-36-3	Butanol	7.0 - 9.0%
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(Contd. on page 3)

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Version 3

Printing date 01/05/2018

Reviewed on 01/05/2018

Product Description: Epoxy Curing Agent

	(Contd. of page 2)
107-15-3 Ethylenediamine Flam. Liq. 3, H226; Resp. Sens. 1, H Acute Tox. 4, H302; Acute Tox. 4, H312 1, H317	< 0.5% H334; � Skin Corr. 1B, H314; 2; Acute Tox. 4, H332; Skin Sens.

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: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 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.

(Contd. on page 4)

US



Safety Data Sheet acc. to OSHA HCS

Printing date 01/05/2018

Version 3

Reviewed on 01/05/2018

Product Description: Epoxy Curing Agent

Protective	Action Criteria for Chemicals	(Contd. of page 3
PAC-1:		
1330-20-7	Xylenes	130 ppm
71-36-3	Butanol	60 ppm
107-15-3	Ethylenediamine	0.88 ppm
PAC-2:		
1330-20-7	Xylenes	920* ppm
71-36-3	Butanol	800 ppm
107-15-3	Ethylenediamine	9.7 ppm
PAC-3:		
1330-20-7	Xylenes	2500* ppm
71-36-3	Butanol	8000** ppm
107-15-3	Ethylenediamine	20 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: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- 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:

1330-20-7 Xylenes

- PEL Long-term value: 435 mg/m³, 100 ppm
- REL Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
- TLV Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI

(Contd. on page 5)

US



Version 3

Reviewed on 01/05/2018

Product Description: Epoxy Curing Agent

=1 0	(Contd. of page
	6-3 Butanol
	Long-term value: 300 mg/m ³ , 100 ppm
REL	Ceiling limit value: 150 mg/m ³ , 50 ppm Skin
TLV	Long-term value: 61 mg/m ³ , 20 ppm
107-	15-3 Ethylenediamine
PEL	Long-term value: 25 mg/m ³ , 10 ppm
REL	Long-term value: 25 mg/m ³ , 10 ppm
TLV	Long-term value: 25 mg/m ³ , 10 ppm Skin
Ingre	edients with biological limit values:
1330	0-20-7 Xylenes
BEI	1.5 g/g creatinine
	Medium: urine
	Time: end of shift Parameter: Methylhippuric acids
	itional information: The lists that were valid during the creation were used as basis.
Was Avoid Avoid Brea In ca expo	ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. d contact with the skin. d contact with the eyes and skin. hthing equipment: ase of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air. ection of hands:
1117	
Due prepa	Protective gloves
	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation to missing tests no recommendation to the glove material can be given for the product/ to aration/ the chemical mixture.
degra	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation to missing tests no recommendation to the glove material can be given for the product/ the aration/ the chemical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the adation
degra Mate	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation to missing tests no recommendation to the glove material can be given for the product/ the aration/ the chemical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the

 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.

(Contd. on page 6)

(Contd. of page 5)



Safety Data Sheet acc. to OSHA HCS

Version 3

Reviewed on 01/05/2018

Product Description: Epoxy Curing Agent

· Eye protection:

Printing date 01/05/2018



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical prope	erties
 Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: 	chemical properties Liquid Yellow-brown Amine-like Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. > 66 ℃ (>150.8 ℉)
· Flash point:	32 °C (89.6 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
 Explosion limits: Lower: Upper: 	Not determined. Not determined.
 Vapor pressure: Density at 25 °C (77 °F): Relative density Vapor density Evaporation rate 	Not determined. 0,9634 g/cm ³ (8.03957 lbs/gal) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wat	ter): Not determined.
 Viscosity: Dynamic at 25 ℃ (77 ℉): Kinematic: 	1500 cps Not determined.
	(Contd. on page 7)

(Contd. of page 6)



Safety Data Sheet acc. to OSHA HCS

Version 3

Reviewed on 01/05/2018

Product Description: Epoxy Curing Agent

· Solvent content:

Printing date 01/05/2018

- Solids content:
- · Other information

65,0 % 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

· Acute tox · LD/LC50	icity:	cological effects It are relevant for classification: skin.	
1330-20-7	Xylenes		
Oral	LD50	4,300 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
71-36-3 Butanol			
Oral	LD50	790 mg/kg (rat)	
Dermal	LD50	3,400 mg/kg (rabbit)	
Inhalative	LC50/4 h	8,000 mg/l (rat)	
107-15-3 I	Ethylened	iamine	
Oral	LD50	866 mg/kg (rat)	
Dermal	LD50	560 mg/kg (rabbit)	
Inhalative	LC50/4 h	14.7 mg/l (rat)	
 on the eye Sensitizati 	in: Irritant e: Strong i tion: on possibl	ect: to skin and mucous membranes. rritant with the danger of severe eye injury. e through inhalation. e through skin contact.	

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

(Contd. on page 8)

US -



Safety Data Sheet acc. to OSHA HCS

Printing date 01/05/2018

Version 3

Product Description: Epoxy Curing Agent

(Contd. of page 7)

3

- Carcinogenic categories
- · IARC (International Agency for Research on Cancer)
- 1330-20-7 Xylenes

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the 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 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.

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

UN-Number		
DOT, ADR, IMDG, IATA	UN1866	
UN proper shipping name		
DOT	Resin solution	
ADR	1866 Resin solution	
IMDG, IATA	RESIN SOLUTION	



Safety Data Sheet acc. to OSHA HCS

Version 3

Reviewed on 01/05/2018

Product Description: Epoxy Curing Agent

DOT Image: Constraint of the second seco		(Contd. of pag
Class 3 Flammable liquids 3 ADR Class 3 ADR Class 3 Flammable liquids Miscellaneous dangerous substances and articles 3 IMDG, IATA Class 3 Flammable liquids Alternative Statement of	Transport hazard class(es)	
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Maximum net quantity per inner packaging: 30 ml		Codo: E1
	Excepted quantities (EQ)	



Reviewed on 01/05/2018

Product Description: Epoxy Curing Agent

	(Contd. of page 9)
 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 1866 RESIN SOLUTION, 3, III

15 Regulatory information

Section 3:	55 (extremely hazardous substances):	
107-15-3	Ethylenediamine	
Section 3 ⁻	13 (Specific toxic chemical listings):	
1330-20-7	Xylenes	
71-36-3	Butanol	
TSCA (To	xic Substances Control Act):	
All ingredie	ents are listed.	
TSCA new Propositio	v (21st Century Act) (Substances not listed) on 65	
Chemicals	s known to cause cancer:	
None of th	e ingredients is listed.	
Chemical	s known to cause reproductive toxicity for females:	
None of th	e ingredients is listed.	
Chemicals	s known to cause reproductive toxicity for males:	
None of th	e ingredients is listed.	
Chemicals	s known to cause developmental toxicity:	
	e ingredients is listed.	
Carcinoge	enic categories	
-	ironmental Protection Agency)	
1330-20-7		
	Butanol	
107-15-3	Ethylenediamine	
TLV (Thre	shold Limit Value established by ACGIH)	
1330-20-7	• ·	A
107-15-3	Ethylenediamine	A
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
	e ingredients is listed.	

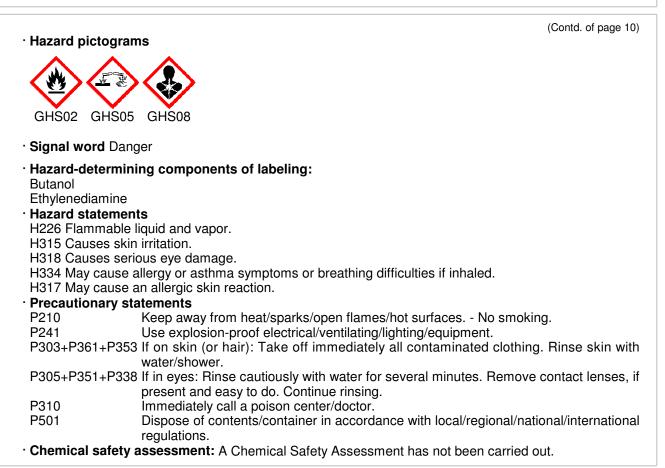


Version 3

Printing date 01/05/2018

Reviewed on 01/05/2018

Product Description: Epoxy Curing Agent



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 01/05/2018 / 2
- 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 12)

US

US



Safety Data Sheet acc. to OSHA HCS

Printing date 01/05/2018

Version 3

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Product Description: Epoxy Curing Agent

(Contd. of page 11) PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEL: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – 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 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3