

Safety Data Sheet acc. to OSHA HCS

Version 3

Reviewed on 12/15/2015

1 Identification

- Product identifier
- Product Description: Epoxy curing agent
- Product code: Cardolite LITE 3005
- · Application of the substance / the mixture Coating
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: Cardolite Corporation 500 Doremus Avenue Newark, NJ 07105 USA Tel: (973) 344-5015 Fax: (973) 344-1197 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.



Skin Irrit. 2 H315 Causes skin irritation.

- Label elements
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

- Hazard statements
- H226 Flammable liquid and vapor.
- H315 Causes skin irritation.
- · Precautionary statements
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- Wear protective gloves / eye protection / face protection. P280
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P321 Specific treatment (see on this label).
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Product Description: Epoxy curing agent

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Classification system:
 NFPA ratings (scale 0 - 4)



Health = 1 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH1Health = 1FIRE3Fire = 3REACTIVITY0Reactivity = 0

- · Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

· Dangerous components:

Flam. Liq. 3, H226; () Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit.

26.0 - 31.0%

4 First-aid measures

· Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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.
- · 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, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet

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- Special hazards arising from the substance or mixture No further relevant information available. • Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- 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.
- 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
- · 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 xylene

PEL 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

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Product Description: Epoxy curing	agent	
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Ingredients with biological lim	it values:	
1330-20-7 xylene		
BEI 1.5 g/g creatinine		
Medium: urine		
Time: end of shift		
Parameter: Methylhippuric a	ıcids	
· Additional information: The list	s that were valid during the creatio	on were used as basis.
 Exposure controls 		
· Personal protective equipment	t:	
General protective and hygien		
Keep away from foodstuffs, beve		
Immediately remove all soiled an		
Wash hands before breaks and		
Do not inhale dust / smoke / mist		
Avoid contact with the skin.	alvia	
Avoid contact with the eyes and s • Breathing equipment:	58111.	
	v pollution use respiratory filter de	evice. In case of intensive or longe
	ive device that is independent of ci	
· Protection of hands:		
Protective gloves		
The glove material has to be imp	ermeable and resistant to the proc	luct/ the substance/ the preparation
		I can be given for the product/ th
preparation/ the chemical mixture	е.	
	on consideration of the penetrati	ion times, rates of diffusion and th
degradation		
Material of gloves		
		naterial, but also on further marks
		product is a preparation of sever
be checked prior to the application		ated in advance and has therefore
· Penetration time of glove mate		
		urer of the protective gloves and ha
to be observed.		
 Eye protection: 		
Tightly sealed goggles		
rightiy sealed goggles		
Body protection: Protective wor	'k clothing	
9 Physical and chemical pr	operties	
· Information on basic physical	and chemical properties	
· General Information		
 Appearance: Form: 	Liquid	
EUHH.	1 11 11 11 1	

Form:

Liquid

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Product Description: Epoxy curing agent

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Color: · Odor: · Odour threshold:	Orange Amine-like Not determined.
· pH-value at 25 °C (77 °F):	9.8
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. > 65 ℃ (> 149 ℉)
· Flash point:	33 °C (91 °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:	Not determined.
 Density at 25 °C (77 °F): Relative density Vapour density Evaporation rate 	0,96 g/cm ³ (8.011 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 ℉): Kinematic:	1700 cps Not determined.
· Solvent content:	
Solids content: · Other information	70.0 % 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.

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Product Description: Epoxy curing agent

· 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.

1330-20-7 xylene

- Oral LD50 4300 mg/kg (rat) Dermal LD50 2000 mg/kg (rabbit)
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

- Harmful Irritant
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

1330-20-7 xylene

· 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. 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.

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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.

4 Transport information	
 · UN-Number · DOT, ADR, IMDG, IATA 	UN1866
 · UN proper shipping name · DOT, IMDG, IATA · ADR 	RESIN SOLUTION 1866 RESIN SOLUTION
 Transport hazard class(es) DOT 	
· Class · Label	3 Flammable liquids 3
· ADR	
· Class	3 Flammable liquids Miscellaneous dangerous substances and articles
· Label	3
· IMDG, IATA	
[·] Class [·] Label	3 Flammable liquids 3
 Packing group DOT, ADR, IMDG, IATA 	III
 Environmental hazards: Marine pollutant: 	No
 Special precautions for user Danger code (Kemler): 	Warning: Flammable liquids 33
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· EMS Number:	F-E, <u>S-E</u>	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
· UN "Model Regulation":	UN1866, RESIN SOLUTION, 3, III	

15 Regulatory information

Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
1330-20-7 xylene	
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)	
1330-20-7 xylene	
TLV (Threshold Limit Value established by ACGIH)	
	A
1330-20-7 xylene	11

· GHS label elements

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



Signal word Warning
Hazard statements
H226 Flammable liquid and vapor.

H315 Causes skin irritation.

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Product Description: Epoxy curing agent

· Precautionary sta	atements
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves / eye protection / face protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321	Specific treatment (see on this label).
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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· 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
- · Date of preparation / last revision 12/15/2015 / 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) 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, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2