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- Trade name: EP1325
   Recommended use One part, heat cured epoxy adhesive
   Restrictions on use For industrial use only · Details of the supplier of the safety data sheet Manufacturer/Supplier: Manufacturer/supplier. ResinLab, LLC N109 W13300 Ellsworth Drive Germantown, WI 53022 1-877-259-1669 www.resinlab.com Information Department: Product Safety Department: msds@resinlab.com Emergency Telephone Number:

  - **Emergency Telephone Number:** North America Chemtrec: 1-800-424-9300 (24 hours) International Chemtrec: 01-703-527-3887 (24 hours)

#### 2 Hazard(s) identification

#### · Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

- Eye Irrit. 2A H319 Causes serious eye 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 Warning
- Hazard-determining components of labeling: Bisphenol-A-(epichlorohydrin) epoxy resin Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. Broonutinger: estatements

- Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

- Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- Collect spillage. Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Classification system:

  - NFPA System NFPA ratings (scale 0 4)



NFPA special hazards (water reactivity and oxidizing property): None

# · HMIS System · HMIS-ratings (scale 0 - 4)

HEALTH 2 Health = 2FIRE 1 Fire = 1Reactivity = 0**REACTIVITY** 0

Other hazards •er nazaros • Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable.

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Chemical characterization:		
<ul> <li>Dangerous components</li> </ul>		
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8	Bisphenol-A-(epichlorohydrin) epoxy resin Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	60-70%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	2.5-5%
CAS: 1333-86-4 EINECS: 215-609-9 RTECS: FF5800000	Carbon black	0.1-1%
CAS: 14808-60-7 EINECS: 238-878-4 RTECS: VV 7330000	Quartz	<i>≥</i> 0-<0.19

percentage of composition has been withheld as a trade secret.

#### 4 First-aid measures

Description of first aid measures

- General information: Keep warm, position comfortably and cover well. Immediately remove any clothing soiled by the product.
- After inhalation:
- Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Supply fresh air and if symptoms occur call for a doctor.
- case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. Remove all contaminated clothing and wash before reuse. If skin rash or irritation occurs, seek medical advice. After eye contact:

- Immediately flush opened eyes with water for 5 minutes, then remove contact lenses if present, continue flushing for at least another 15 minutes.
- If symptoms develop seek medical attention. After swallowing:
- If victim is unconscious; never give anything by mouth. Io NOT induce vomiting. If victim is conscious, rinse out mouth with water. Get medical attention if you feel unwell.

- 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 Check section 11 Toxicological Information for further relevant information.

### 5 Fire-fighting measures

#### Extinguishing media

- **Suitable extinguishing agents:** Carbon dioxide Alcohol resistant foam
- dry chemical
- water fog For safety reasons unsuitable extinguishing agents: Water with full jet Special hazards arising from the substance or mixture Will not burn unless preheated. In case of fire, the following can be released: Phenolic compounds May generate approach

- May generate ammonia gas. Phenolics
- Advice for firefighters
  - Protective equipment: If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).
  - As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use. Environmental precautions:
- Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up: For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container. For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.

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### Ensure adequate ventilation.

Allow molten product to cool. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

# 7 Handling and storage

Handling: Precautions for safe handling

Avoid breathing vapor or spray mists. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Keep away from incompatible material(s). Avoid any release into the environment. Do not breathe dust/fumes/mist/vapor/spray.

Avoid contact with eyes, skin and clothing. Keep away from heat,sparks, flames and ignition sources. Observe all the personal protection requirements in Section 8.

#### · Conditions for safe storage, including any incompatibilities

# Storage: Requirements to be met by storerooms and receptacles:

Provide ventilation for receptacles. Keep stored in accordance with local, regional, national, and international regulations.

#### 8 Exposure controls/personal protection

#### Control parameters

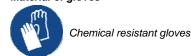
Control parameters	
<ul> <li>Components with limit values that require monitoring</li> </ul>	at the workplace:
67762-90-7 Siloxanes and Silicones, di-Me, reaction produ	icts with silica
OSHA PEL Short-term value: 15 mg/m <sup>3</sup>	
US ACGIH Short-term value: 10 mg/m <sup>3</sup>	
1333-86-4 Carbon black	
PEL Long-term value: 3.5 mg/m <sup>3</sup>	
REL Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs;See Pocket Guide App	s.A+C
TLV Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction	
14808-60-7 Quartz	
PEL see Quartz listing	
REL Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A	
TLV Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction	
Additional Occupational Exposure Limit Value	s for possible hazards during processing: None.
<ul> <li>Exposure controls         If applicable, use process enclosures, local exhaust very recommended exposure limits.         If exposure limits have not been established, maintain airborn         • Personal protective equipment:         • General protective and hygienic measures:         Be sure to clean skin thoroughly after work and before Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated cloth Avoid contact with the eyes and skin.     </li> </ul>	e breaks.
<ul> <li>Personal Protective Equipment (PPE)</li> </ul>	

## Breathing equipment:

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

Exposure limits. Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use. **Protection of hands:** 

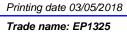
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves



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· Eye protection:



Safety Glasses with side shields

• **Body protection:** Appropriate chemical resistant clothing. • **Limitation and supervision of exposure into the environment** The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

9 Physical and chemical properti	ies
<ul> <li>Information on basic physical and cher</li> <li>General Information</li> <li>Appearance:         <ul> <li>Form:</li> <li>Color:</li> <li>Odor:</li> <li>Odor threshold:</li> </ul> </li> </ul>	
· pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. >200 °C (>392 °F)
· Flash point:	>200 °C (>392 °F)
<ul> <li>Flammability (solid, gaseous):</li> </ul>	Not applicable.
<ul> <li>Ignition temperature:</li> </ul>	Not determined.
· Auto igniting:	Product is not selfigniting.
<ul> <li>Danger of explosion:</li> </ul>	Product does not present an explosion hazard.
• Explosion limits: • Lower: • Upper:	Not determined. Not determined.
<ul> <li>Vapor pressure:</li> <li>Vapor Density:</li> </ul>	Not determined. not determined
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	1.29 g/cm <sup>3</sup> (10.77 lbs/gal) Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Not miscible or difficult to mix.
<ul> <li>Partition coefficient (n-octanol/wate · Henry's Law Constant:</li> </ul>	er): Not determined. Not determined.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> <li>VOC content:</li> </ul>	Not available. Not available. 0.00 % 0.0 g/l / 0.00 lb/gl

#### 10 Stability and reactivity

· Reactivity Not a regulated physical hazard under GHS.

Hazardous Reactivity and Chemical Stability May polymerize in contact with sodium hydroxide.
 Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat. No decomposition if used and stored according to specifications.
 Possibility of hazardous reactions In contact with incompatible materials.
 Conditions to avoid Keep away from heat, sparks, flame and any other ignition sources.
 Incompatible materials: Oviding agonts.

Oxidizing agents Mercaptans

Acids

Amines

Bases (Alkalis) Hazardous decomposition products: Possible in traces. Additional information:

As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

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Toxicol	ogical i	nformation		
		icological effects		
	toxicity:	lien dhet eve velevert fev eleveilientien.		
		lues that are relevant for classification:		
		nol-A-(epichlorohydrin) epoxy resin 11.400 ma/ka (rat)		
		mg/l (Test species: n/a) (Toxicity not expected based on the acute oral data)		
14807-96-		mgr (rest species, find) (rokicity not expected based on the acute oral data)		
	LD50	mg/kg (No data available)		
	LD50	mg/kg (Test species: n/a) (No adverse effects known) Reference: IUCLID Dataset (2000).		
Inhalative	LC50/4 h	mg/l (No data available) (Toxicity not anticipated under normal conditions)		
Ероху Ро			_	
	LD50	mg/kg (No data available)		
Dermal	LD50	mg/kg (No data available)		
Inhalative	LC50/4 h	mg/l (No data available)		
67762-90-		es and Silicones, di-Me, reaction products with silica		
	LD50	>5,000 mg/kg (rat) (test method not specified)		
	LD50	mg/kg (Test species: n/a) (Toxicity not expected based on acute oral data)		
Inhalative	LC50/4 h	mg/l (Test species: n/a) (Toxicity not expected based on acute oral data)		
	• on the s	tant effect: skin: Irritant to skin and mucous membranes.		
•	• on the e	eye: Irritating effect.		
· Se Additi	ensitizatio	eye: Irritating effect. n: Sensitization possible through skin contact. cological information:		
The pr Irritant	roduct sho	ws the following dangers according to internally approved calculation methods for preparations:		
· Cá	arcinogen	ic categories		
		nternational Agency for Research on Cancer)		
14807-96-	6 Talc		3	
1333-86-	4 Carbon	black	2E	
14808-60-	7 Quartz		1	
	· NTP (Na	ational Toxicology Program)	_	
14808-60-			K	
	· OSHA-C	Ca (Occupational Safety & Health Administration)	-	
None of th	ne inaredie	nts is listed.		
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# 12 Ecological information

· Toxicity
· Aquatic toxicity:
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin
EC50   mg/kg (rabbit)
14807-96-6 Talc
EC50 mg/kg (Human) There was no or very slight irritation observed in humans. (rabbit)
Primarý cutaneous irritation tests showed no trace of irritation in rabbits. The substance was not classified as a dermal irritant. Reference: IUCLID Dataset (2000).
Epoxy Polyamine Adduct
EC50   mg/kg (No data available)
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica
EC50   mg/kg (Test species: n/a) (Primary irritation index=0)
<ul> <li>Persistence and degradability No further relevant information available.</li> <li>Other information: The product is easily biodegradable.</li> <li>Behavior in environmental systems:         <ul> <li>Bioaccumulative potential No data available.</li> <li>Mobility in soil No further relevant information available.</li> <li>Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative.</li> <li>General notes:</li></ul></li></ul>
· Other adverse effects No further relevant information available.



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Waste treatment methods Recommendation:	
Must be specially treated adhering to official regu Must not be disposed of together with household	ulations. I garbage. Do not allow product to reach sewage system.
• Uncleaned packagings: • Recommendation: Dispose of according to you	r local waste regulations.
4 Transport information	
UN-Number DOT, IMDG, IATA	UN3082
UN proper shipping name DOT	Environmentally hazardous substances, liquid, n.o.s. (Bisphen
·IMDG	A-(epichlorohydrin) epoxy resin) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin), MARII POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin)
<ul> <li>Transport hazard class(es)</li> <li>DOT, IMDG, IATA</li> </ul>	
· Class	9 Miscellaneous dangerous substances and articles
Label Packing group DOT, IMDG, IATA	9
· Environmental hazards:	Not applicable.
Special precautions for user Danger code (Kemler): EMS Number: Stowage Category	Warning: Miscellaneous dangerous substances and articles 90 F-A,N/A A
• Transport in bulk according to Annex II of MARP( IBC Code	OL73/78 and the Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
· Remarks:	Special marking with the symbol (fish and tree).
<ul> <li>IMDG         <ul> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul> </li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPO)

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture	
<ul> <li>SARA Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients is listed.	
<ul> <li>SARA Section 313 (Specific toxic chemical listings):</li> </ul>	
None of the ingredients is listed.	
SARA Section 311/312 (Hazardous Chemical Inventory Reporting)	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	A, C 60-70%
1333-86-4 Carbon black	A, C 0.1-1%
• <b>Hazard Abbreviations for SARA 311/312</b> A - Acute Health Hazard C - Chronic Health Hazard F - Fire Hazard R - Reactive Hazard S - Sudden Release of Pressure Hazard	(Contd. on page 7)

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# Safety Data Sheet acc. to OSHA HCS

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· TSC	CA 8 (b) Inventory:
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin
14807-96-6	
	Epoxy Polyamine Adduct
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
1333-86-4	Carbon black
14808-60-7	Quartz
	position 65
	Chemicals known to cause cancer:
	Carbon black
14808-60-7	
106-89-8	1-chloro-2,3-epoxypropane
	Chemicals known to cause reproductive toxicity for females:
None of the	ingredients is listed.
	Chemicals known to cause reproductive toxicity for males:
106-89-8 1-	chloro-2,3-epoxypropane
	Chemicals known to cause developmental toxicity:
None of the	ingredients is listed.
	cinogenic categories
	EPA (Environmental Protection Agency)
	ingredients is listed.
	TLV (Threshold Limit Value established by ACGIH)
14807-96-6	
	Carbon black A4
14808-60-7	Quartz A2
•	NIOSH-Ca (National Institute for Occupational Safety and Health)
14808-60-7	Quartz
	tional Regulation Lists S label elements GHS label elements
	REACh - Substances of Very High Concern (SVHC) List:
None of the	ingredients is listed.
	Restriction of Hazardous Substances Directive (RoHS) list:
	ingredients is listed.
· Chemical s	afety 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 (M)SDS: Product Development Department
 Contact: msds@resinlab.com
 Date of preparation / last revision 03/05/2018 / 2
 \* Data compared to the previous version altered.