

## Safety Data Sheet

acc. to OSHA HCS

Print Date 03/15/2017

Revision Date 03/15/2017

- **Product Identifier**
  - **Trade Name:** EP1400 A
  - **Application of the Substance or Mixture:** Epoxy Resin
- **Details of the Supplier of the Safety Data Sheet (SDS)**
  - **Manufacturer or Supplier:**  
Resinlab, LLC  
N109 W13300 Ellsworth Drive,  
Germantown, WI 53022  
1-800-388-8605  
www.resinlab.com
  - **Information Department:** Product Safety Department:  
msds@resinlab.com
  - **Emergency Telephone Number:**  
North America - Chemtrec: 1-800-424-9300 (24 hours)  
International - Chemtrec: 01-703-527-3667 (24 hours)

### 2 Hazard(s) identification

- **Hazard Classification**

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).
- **Pictogram(s)**



GHS07

- **Signal Word** Warning

- **Hazard-determining Component(s)**

Phenol, polymer with formaldehyde, glycidyl ether  
 Dibromoneopentyl glycol, chloromethyloxirane polymer  
 Bisphenol-A-(epichlorohydrin) epoxy resin

- **Hazard statements**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.

- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wear protective gloves / eye protection / face protection.  
 Wash thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Wash contaminated clothing before reuse.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 IF ON SKIN: Wash with plenty of water.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

20.9 % of the mixture consists of component(s) of unknown toxicity.

- **Hazard Rating System**

- **NFPA System**

- **NFPA Ratings (scale 0 - 4)**



Health = 2  
 Fire = 1  
 Reactivity = 0

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

- **HMIS System**

- **HMIS Ratings (scale 0 - 4)**



Health = \*2  
 Fire = 1  
 Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## Safety Data Sheet acc. to OSHA HCS

Print Date 03/15/2017

Revision Date 03/15/2017

Trade Name: EP1400 A

(Contd. of page 1)

### 3 Composition/information on ingredients

#### Chemical Characterization: Mixtures

##### Composition/Information on Ingredients

CAS: 28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	30-40%
CAS: 65997-17-3 EINECS: 266-046-0	Fibrous Glass	20-30%
CAS: 31452-80-9 NLP: 500-073-3	Dibromoneopentyl glycol, chloromethyloxirane polymer Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-20%
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	10-20%
CAS: 13560-89-9 EINECS: 236-948-9	Bis(hexachlorocyclopentadieno) STOT RE 2, H373	2.5-5%
CAS: 1309-64-4 EINECS: 215-175-0 Index Number: 051-005-00-X	Diantimony trioxide Carc. 2, H351 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	2.5-5%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	1-2.5%
CAS: 112926-00-8	Precipitated silica (Silica-Amorphous)	0.1-1%
CAS: 2530-83-8 EINECS: 219-784-2 RTECS: VV 4025000	Glycidyoxypropyltrimethoxysilane Eye Dam. 1, H318	0.1-1%
CAS: 78-78-4 EINECS: 201-142-8 Index Number: 601-085-00-3 RTECS: EK 4430000	isopentane Flam. Liq. 1, H224 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Acute 2, H401	0.1-1%
CAS: 7440-38-2 EINECS: 231-148-6 Index Number: 033-001-00-X RTECS: CG 0525000	arsenic Acute Tox. 3, H301; Acute Tox. 3, H331 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0-<0.025%

#### Additional Information:

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

### 4 First-aid measures

#### Description of First Aid Measures

##### General Information

Ensure medical personnel are aware of exposure and take precautions for their personal protection; see Section 8 for the information of personal protection.

##### After Inhalation

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.

##### After Skin Contact

Remove all contaminated clothing and wash before reuse. Wash contaminated skin with water and soap and rinse thoroughly. Seek medical treatment in case of complaints.

##### After Eye Contact

Immediately bathe eyes for 15 minutes under running water. Immediately remove contact lenses if present. Continue rinsing. Seek medical advice.

##### After Swallowing

If victim is unconscious; never give anything by mouth. If victim is conscious; rinse out mouth and give victim small amounts of water. Seek medical treatment in case of complaints.

##### Information for Doctor

**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 Agent(s)

Use fire fighting measures and extinguishing agents that suit the environment.

In case of fire, suitable extinguishing agents are:

Alcohol resistant foam.

Dry chemical or fire-extinguishing powder.

Carbon dioxide (CO<sub>2</sub>).

Water spray or water fog.

##### Unsuitable Extinguishing Agent(s) Water with full jet

#### Firefighting Procedures Immediately withdraw all personnel from the area in case of rising sound from venting safety device.

(Contd. on page 3)

## Safety Data Sheet acc. to OSHA HCS

Print Date 03/15/2017

Revision Date 03/15/2017

Trade Name: EP1400 A

(Contd. of page 2)

- **Special Hazards Arising in Fire**  
 Will not burn unless preheated.  
 In case of fire, following can be released:  
 Phenolic compounds  
 Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.  
 Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)
- **Advice for Firefighters**  
 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.
- **Additional Information** Ensure adequate and functional fire fighting facilities equipped in working area at all times.

### 6 Accidental release measures

- **Personal Precautions**  
 Do not breathe the gas, vapors, dusts or mists if their inhalable particles occur during use.  
 Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements.
- **Environmental Precautions** No further relevant information.
- **Cleaning Up Methods**  
 Ensure adequate ventilation.  
 Eliminate all ignition sources.  
 Keep unauthorized personnel away.  
 Absorb residues with liquid-binding materials.  
 Ventilate and wash area after clean-up is complete.  
 Collect spills in suitable and properly labeled containers.  
 Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.  
 Dispose contaminated chemicals as waste according to Section 13.
- **Additional Information** No further relevant information.
- **Protective Action Criteria for Chemicals**

• PAC-1:		
28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	30 mg/m3
65997-17-3	Fibrous Glass	15 mg/m3
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	90 mg/m3
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	120 mg/m3
112926-00-8	Precipitated silica (Silica-Amorphous)	18 mg/m3
2530-83-8	Glycidyloxypropyltrimethoxysilane	9.3 mg/m3
78-78-4	isopentane	3000* ppm
7440-38-2	arsenic	1.5 mg/m3
7439-92-1	lead	0.15 mg/m3
• PAC-2:		
28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	330 mg/m3
65997-17-3	Fibrous Glass	170 mg/m3
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	990 mg/m3
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	1,300 mg/m3
112926-00-8	Precipitated silica (Silica-Amorphous)	200 mg/m3
2530-83-8	Glycidyloxypropyltrimethoxysilane	100 mg/m3
78-78-4	isopentane	33000*** ppm
7440-38-2	arsenic	17 mg/m3
7439-92-1	lead	120 mg/m3
• PAC-3:		
28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	2,000 mg/m3
65997-17-3	Fibrous Glass	990 mg/m3
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	5,900 mg/m3
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	7,900 mg/m3
112926-00-8	Precipitated silica (Silica-Amorphous)	1,200 mg/m3
2530-83-8	Glycidyloxypropyltrimethoxysilane	230 mg/m3
78-78-4	isopentane	200000*** ppm
7440-38-2	arsenic	100 mg/m3
7439-92-1	lead	700 mg/m3

### 7 Handling and storage

- **Handling**
  - **Precautions for Safe Handling**  
 Do not breathe dust created by sanding, grinding or machining.  
 Do not breathe dust/fume/gas/mist/vapor/spray.  
 Keep away from incompatible material(s).  
 Avoid any release into the environment.  
 For industrial or professional use only.  
 Observe all the personal protection requirements in Section 8.
  - **Information about Protection Against Explosions and Fires**  
 Keep away from heat, sparks, open flame and other ignition sources during handling.

(Contd. on page 4)

US

## Safety Data Sheet

acc. to OSHA HCS

Print Date 03/15/2017

Revision Date 03/15/2017

Trade Name: EP1400 A

(Contd. of page 3)

- **Storage**
- **Requirements to be Met by Storerooms and Receptacles**  
 Store in a well-ventilated place; provide ventilation for receptacles.  
 Keep stored in accordance with local, regional, national, and international regulations.
- **Additional Information** No further relevant information.

### 8 Exposure controls/personal protection

- **Engineering Measures or Controls**
- **Exposure 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 other constituents have no known exposure limits.

<b>65997-17-3 Fibrous Glass</b>	
ACGIH TLV	Long-term value: 10 mg/m <sup>3</sup>
OSHA PEL	Long-term value: 15 mg/m <sup>3</sup> Total dust
<b>13560-89-9 Bis(hexachlorocyclopentadieno)</b>	
TWA	Short-term value: 1 mg/m <sup>3</sup> MFG recommendation 8 hour TWA
<b>1309-64-4 Diantimony trioxide</b>	
TEEL-1	Short-term value: 1.8 mg/m <sup>3</sup>
TEEL-2	Short-term value: 4.0 mg/m <sup>3</sup>
TEEL-3	Short-term value: 59.9 mg/m <sup>3</sup>
<b>67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica</b>	
OSHA PEL	Short-term value: 15 mg/m <sup>3</sup>
US ACGIH	Short-term value: 10 mg/m <sup>3</sup>
<b>112926-00-8 Precipitated silica (Silica-Amorphous)</b>	
PEL	20mppcf or 80mg/m <sup>3</sup> /%SiO <sub>2</sub>
REL	Long-term value: 6 mg/m <sup>3</sup> See Pocket Guide App. C
TLV	TLV withdrawn
<b>2530-83-8 Glycidylxypropyltrimethoxysilane</b>	
DCC OEL TWA	Short-term value: 0.5 mg/m <sup>3</sup>
<b>78-78-4 isopentane</b>	
PEL	Long-term value: 2950 mg/m <sup>3</sup> , 1000 ppm
TLV	Long-term value: 2950 mg/m <sup>3</sup> , 1000 ppm
<b>7440-38-2 arsenic</b>	
PEL	Long-term value: 0.5* 0.01** mg/m <sup>3</sup> as As; *organic**inorg. compds.; 29 CFR 1910.1018
REL	Ceiling limit value: 0.002 mg/m <sup>3</sup> as As; 15min; See Pocket Guide App. A
TLV	Long-term value: 0.01 mg/m <sup>3</sup> as As; BEI

- **Other Engineering Measures or Controls**  
 Ventilation rates should be matched to conditions.  
 If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
- **Personal Protective**
- **General Protective and Hygienic Measures**  
 Avoid any contact with eye.  
 Do not eat, drink or smoke during work.  
 Clean hands and exposed skin thoroughly after work and before breaks.
- **Personal Protective Equipment (PPE)**
  - **Breathing Equipment**  
 Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended 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.
  - **Hand Protection**  
 Selection of glove material should take into consideration the penetration times, rates of diffusion, and the degradation.  
 Nitrile Gloves  
 Butyl Rubber Gloves
  - **Eye Protection** safety glasses with side shields and or face shield.
  - **Body Protection** Appropriate chemical resistant clothing.
- **Additional Information**  
 All protective clothing (suits, gloves, footwear, headgear) should be clean, available every day, and put on before work.  
 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.

(Contd. on page 5)

## Safety Data Sheet acc. to OSHA HCS

Print Date 03/15/2017

Revision Date 03/15/2017

Trade Name: EP1400 A

(Contd. of page 4)

### 9 Physical and chemical properties

#### Information on Basic Physical and Chemical Properties

- **Appearance:**
  - **Form:** Paste
  - **Color:** White
  - **Odor:** Characteristic
- **Odor Threshold:** Not determined.

- **PH-Value:** Not determined.

- **Change in Condition:**
  - **Melting Point:** Not determined.
  - **Boiling Point:** Not determined.
  - **Flash Point:** >200 °C (>392 °F)
- **Decomposition Temperature:** Not determined.
- **Auto-ignition Temperature:** Not determined.
- **Flammability:** Not determined.
- **Explosion:** Not determined.
- **Explosion Limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.

- **Vapor Pressure:** Not determined.
- **Vapor Density:** not determined
- **Density at 20 °C (68 °F):** 0.56 g/cm<sup>3</sup> (4.673 lbs/gal)
- **Solubility in or Miscibility with**
  - **Water:** Not miscible or difficult to mix.
- **Viscosity:**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.

- **Additional Information** No further relevant information.

### 10 Stability and reactivity

- **Physical Hazard(s)** Not a regulated reactive or physical hazard under GHS.
- **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
- **Thermal Decomposition and Conditions to be Avoided**  
Keep away from incompatible material(s).  
Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.
- **Possibility of Other Hazardous Reaction(s)** No further relevant information available.
- **Incompatible Material(s)**  
Oxidizing agents  
Mercaptans  
Acids  
Reducing agents  
Amines  
Bases (Alkalis)
- **Hazardous Decomposition Product(s)**  
Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

### 11 Toxicological information

- **Acute Toxicity**
  - **LD/LC50 values that are relevant for classification:**  
nausea  
unconsciousness  
vomiting  
headache  
dizziness  
insomnia  
Not a classified acute oral hazard.

#### 28064-14-4 Phenol, polymer with formaldehyde, glycidyl ether

Oral	LD50	> 5000 mg/kg (rat) Reference: Huntsman (M)SDS (2003).
Dermal	LD50	> 6000 mg/kg (rabbit) Reference: Huntsman (M)SDS (2003).
Inhalative	LC50/4 h	(Test species: n/a) (Toxicity not expected based on acute oral data) Based on the acute oral toxicity test, it was expected that toxicity to mammals via inhalation of the substance was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute inhalation hazard.

#### 65997-17-3 Fibrous Glass

Oral	LD50	2000-5000 mg/kg LD50 estimated to be between 2000-5000 mg/kg. Reference: Vendor SDS 2015
------	------	--

(Contd. on page 6)

US



## Safety Data Sheet

acc. to OSHA HCS

Print Date 03/15/2017

Revision Date 03/15/2017

Trade Name: EP1400 A

(Contd. of page 5)

Dermal	LD50	>5000 mg/kg LD50 estimated to be >5000 mg/kg Reference: Vendor SDS 2015
Inhalative	LC50/4 h	(mouse) LD > 20 mg/kg Exposure time unknown. Reference: ChemID (2010).
<b>31452-80-9 Dibromoneopentyl glycol, chloromethyloxirane polymer</b>		
Oral	LD50	(No data available)
Dermal	LD50	(No data available)
Inhalative	LC50/4 h	(No data available)
<b>25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin</b>		
Oral	LD50	11400 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit) (Test guideline not available)
Inhalative	LC50/4 h	(Test species: n/a) (Toxicity not expected based on the acute oral data)
<b>13560-89-9 Bis(hexachlorocyclopentadieno)</b>		
Oral	LD50	> 25000 mg/kg (rat) Reference: EPA HPVVIS (2011).
Dermal	LD50	> 8000 mg/kg (rabbit) No mortality was observed; the substance was not classified as an acute oral hazard. Reference: EPA HPVVIS (2011).
Inhalative	LC50/4 h	> 2.25 mg/l (rat) No mortality or any adverse effects were observed; classification was not possible. Reference: ACToR (2011).
<b>1309-64-4 Diantimony trioxide</b>		
Oral	LD50	>34600 mg/kg (rat) Reference: Sigma Aldrich SDS 2015
Dermal	LD50	> 8300 mg/kg (rabbit) Reference: OECD SIAM (2008).
Inhalative	LC50/4 h	> 5.2 mg/l (rat) (LC50/4 hrs (nose-only; dusts)) No mortality or abnormality was observed; the substance was not classified as an acute inhalative hazard based on the classification criteria. Reference: OECD SIAM (2008).
<b>67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica</b>		
Oral	LD50	>5000 mg/kg (rat) (test method not specified)
Dermal	LD50	(Test species: n/a) (Toxicity not expected based on acute oral data)
Inhalative	LC50/4 h	(Test species: n/a) (Toxicity not expected based on acute oral data)

- **Specific symptoms in biological assay:** Not a classified acute dermal hazard.

- **Primary irritant effect:**

- cough
- loss of consciousness
- shortness of breath
- wheezing
- Not a classified acute inhalative hazard.

- **on the skin:** Irritates skin and mucous membranes.

- **on the eye:** Causes eye irritation.

- **Sensitization:** Possible sensitization upon contact with skin.

- **Subacute to chronic toxicity:** Not applicable.

- **Experience with humans:** Not applicable.

- **Additional toxicological information:**

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

- **Carcinogenic categories**

- **OSHA-Ca (Occupational Safety & Health Administration)**

7440-38-2	arsenic
-----------	---------

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

- **28064-14-4 Phenol, polymer with formaldehyde, glycidyl ether**

EC50	mildly irrit. mg/kg (rabbit) Based on the manufacturer's (M)SDS, the substance was considered to be a mild dermal irritant. Reference: Huntsman (M)SDS (2003).
------	--

- **65997-17-3 Fibrous Glass**

EC50	The substance in dust form causes skin irritation. Reference: Haz-Map (2010).
------	--

- **31452-80-9 Dibromoneopentyl glycol, chloromethyloxirane polymer**

EC50	(No data available)
------	---------------------

- **25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin**

EC50	irritating mg/kg (rabbit)
------	---------------------------

(Contd. on page 7)

US

## Safety Data Sheet

acc. to OSHA HCS

Print Date 03/15/2017

Revision Date 03/15/2017

Trade Name: EP1400 A

(Contd. of page 6)

**13560-89-9 Bis(hexachlorocyclopentadieno)**

EC50 (No data available)

**1309-64-4 Diantimony trioxide**

EC50 (No data available)

**67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica**



EC50 Non-irritating mg/kg (Test species: n/a) (Primary irritation index=0)

- **Persistence and degradability** No data available.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** No data available.
  - **Mobility in soil** No further relevant information available.
- **Additional ecological information:** The product is non-rapidly degradable, and low or not highly bioaccumulative.
- **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:** None of the ingredients is listed.
  - **vPvB:** None of the ingredients is listed.
- **Other adverse effects** No further relevant information.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**  
Generation of waste should be avoided or minimized wherever possible.  
Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.  
Dispose of contents/containers in accordance with local, regional, national, and international regulations.
- **Uncleaned packagings:**
  - **Recommendation** Dispose of according to your local waste regulations.

### 14 Transport information

- **UN-Number**
  - DOT Not Regulated
  - ADR, IMDG, IATA UN3082
- **UN Proper Shipping Name**
  - DOT Not Regulated
  - IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin), MARINE POLLUTANT
  - IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)
- **Transport hazard class(es)**
  - DOT
    - Class Not Regulated
- **ADR**
  - 
  - Class 9 (M6) Miscellaneous dangerous substances and articles
  - Label 9
- **IMDG, IATA**
  - 
  - Class 9 Miscellaneous dangerous substances and articles
  - Label 9
- **Packing group**
  - DOT Not Regulated
  - ADR, IMDG, IATA III
- **Environmental Hazards:**
  - Product contains environmentally hazardous substances: arsenic, Epoxy Resin
  - **Marine Pollutant:** Yes (DOT)  
Symbol (fish and tree)
  - **Special Marking (ADR):** Symbol (fish and tree)
  - **Special Marking (IATA):** Symbol (fish and tree)
- **Special Precautions:** Warning: Miscellaneous dangerous substances and articles

(Contd. on page 8)

## Safety Data Sheet

acc. to OSHA HCS

Print Date 03/15/2017

Revision Date 03/15/2017

Trade Name: EP1400 A

(Contd. of page 7)

· **Danger Code (Kemler):** 90  
 · **EMS Number:** F-A,S-F  
 · **Stowage Category:** A

· **Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional Information:**

· **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)** 5L  
 · **Excepted quantities (EQ)** 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 SUBSTANCES, LIQUID, N.O.S. (EPOXY RESIN), 9, III

### 15 Regulatory information

· **USA Regulation Lists**  
 · **SARA (Superfund Amendments and Reauthorization Act of 1986)**

· **Section 302 (Extremely Hazardous Substances)**

None of the ingredients is listed.

· **Section 313 (Toxics Release Inventory (TRI) reporting)**

1309-64-4	Diantimony trioxide	2.5-5%
7440-38-2	arsenic	0-<0.025%
7439-92-1	lead	0-<0.025%

· **Section 311/312 (Hazardous Chemical Inventory Reporting)**

28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	A	30-40%
65997-17-3	Fibrous Glass	Acute Health, Chronic Health	20-30%
31452-80-9	Dibromoneopentyl glycol, chloromethyloxirane polymer	A	10-20%
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	A, C	10-20%
1309-64-4	Diantimony trioxide	A, C	2.5-5%
2530-83-8	Glycidyoxypropyltrimethoxysilane	A, C	0.1-1%

· **Hazard Abbreviations for SARA 311/312**

A - Acute Health Hazard  
 C - Chronic Health Hazard  
 F - Fire Hazard  
 R - Reactive Hazard  
 S - Sudden Release of Pressure Hazard

· **TSCA (Toxic Substances Control Act)**

28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether
65997-17-3	Fibrous Glass
31452-80-9	Dibromoneopentyl glycol, chloromethyloxirane polymer
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin
13560-89-9	Bis(hexachlorocyclopentadieno)
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
2530-83-8	Glycidyoxypropyltrimethoxysilane
78-78-4	isopentane
7440-38-2	arsenic
7439-92-1	lead

· **Proposition 65**

· **Chemicals Known to Cause Cancer**

1309-64-4	Diantimony trioxide
7440-38-2	arsenic
7439-92-1	lead

· **Chemicals Known to Cause Reproductive Toxicity for Females**

7439-92-1	lead
-----------	------

· **Chemicals Known to Cause Reproductive Toxicity for Males**

7439-92-1	lead
-----------	------

· **Chemicals Known to Cause Developmental Toxicity**

7439-92-1	lead
-----------	------

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

7440-38-2	arsenic	A
7439-92-1	lead	B2

· **IARC (International Agency for Research on Cancer)**

1309-64-4	Diantimony trioxide	2B
-----------	---------------------	----

(Contd. on page 9)



## Safety Data Sheet

acc. to OSHA HCS

Print Date 03/15/2017

Revision Date 03/15/2017

**Trade Name: EP1400 A**

		(Contd. of page 8)
112926-00-8	Precipitated silica (Silica-Amorphous)	3
7440-38-2	arsenic	1
7439-92-1	lead	2B
<b>· NTP (National Toxicology Program)</b>		
7440-38-2	arsenic	K
7439-92-1	lead	R
<b>· TLV (Threshold Limit Value Established by ACGIH)</b>		
1309-64-4	Diantimony trioxide	A2
7440-38-2	arsenic	A1
7439-92-1	lead	A3
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
7440-38-2	arsenic	
<b>· International Regulation Lists</b>		
<b>· Chinese Chemical Inventory of Existing Chemical Substances:</b>		
All ingredients are listed.		
<b>· Japanese Existing and New Chemical Substance List:</b>		
28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	
31452-80-9	Dibromoneopentyl glycol, chloromethyloxirane polymer	
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	
13560-89-9	Bis(hexachlorocyclopentadieno)	
1309-64-4	Diantimony trioxide	
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	
112926-00-8	Precipitated silica (Silica-Amorphous)	
2530-83-8	Glycidyoxypropyltrimethoxysilane	
78-78-4	isopentane	
7440-38-2	arsenic	
7439-92-1	lead	
<b>· Korean Existing Chemical Inventory:</b>		
All ingredients are listed.		
<b>· European Pre-registered substances:</b>		
All ingredients are listed.		
<b>· REACH - Substances of Very High Concern (SVHC) List:</b>		
None of the ingredients is listed.		
<b>· Restriction of Hazardous Substances Directive (RoHS) list:</b>		
None of the ingredients is listed.		

### 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 Safety Department
- **Contact:** msds@resinlab.com

-----  
**· Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists  
 ACToR: US EPA Aggregated Computational Toxicology Resource  
 ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road  
 BCF: Bioconcentration Factor  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System  
 CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform  
 DOT: US Department of Transportation  
 DSL: Canada Domestic Substance List  
 ESIS: European Chemical Substances Information System  
 HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System  
 HSDB: US NLM TOXNET Hazardous Substances Databank  
 HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database  
 IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)  
 IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)  
 ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)  
 ICSC: International Chemical Safety Cards  
 IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)  
 Koc: Partition coefficient, soil Organic Carbon to water  
 LC50/LD50: Lethal Concentration/Dose, 50 percent  
 N/a: Not available or Not applicable  
 NFPA: US National Fire Protection Association  
 NIOSH: US National Institute of Occupational Safety and Health  
 NITE: National Institute of Technology and Evaluation, Japan  
 OECD: Organisation for Economic Co-operation and Development  
 OSHA: US Occupational Safety and Health Administration  
 P: Marine Pollutant  
 RCRA: Resource Conservation and Recovery Act (USA)

(Contd. on page 10)

**Safety Data Sheet**  
**acc. to OSHA HCS**

Print Date 03/15/2017

Revision Date 03/15/2017

**Trade Name: EP1400 A**

(Contd. of page 9)

REACH: EU Registry, Evaluation and Authorisation of Chemicals

RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International Carriage by Rail (OTIF)

RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)

RTECS: US Registry of Toxic Effects of Chemical Substances

SARA: US Superfund Amendments and Reauthorization Act

SIDS: OECD existing chemicals Screening Information Data Sets

SVHC: EU ECHA Substance of Very High Concern

TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)

TOXLINE: US NLM bibliographic database search system

TSCA: US Toxic Substance Control Act

· **Date of preparation / last revision** 03/15/2017 / -

US