

# EPO-LP (Liquid Pigment) LP-13 Safety Red EPO-Guard™ EPO-203, EPO-204, EPO-205 Part A

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Chemical Name

Product Name / Trade Name

CAS No.

Epoxy Resin

EPO-LP LP-13 Safety Red

EPO-Guard™ EPO-203, EPO-204, EPO-205 Part A

Epoxy Resin

**Details of the supplier of the safety data sheet**

Company Identification

Res-Tek, Inc.

110 Riverside Drive

Cartersville, Georgia 30120

United States of America

Telephone

1-888-737-8351 / 1-770-427-4034

**Emergency telephone number**

CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887  
(Collect calls accepted)

### SECTION 2: HAZARDS IDENTIFICATION

**Hazard classification**

GHS Classification

Skin irrit. 2; Eye irrit. 2A; Skin sens 1B; Aquat. Acute 2; Aquat. Chronic 2

**Label elements**

**Hazard pictograms**



**Signal Word(s)**

**WARNING**

**Hazard Statement(s)**

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.

**Precautionary Statement(s)**

**Prevention**

Avoid breathing dust/ fumes/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves and eye protection/face protection.

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Hazards not otherwise classified

May cause sensitization by skin contact.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration	Hazard Statement(s)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	60% – 90%	Skin Irrit. 2; H315 Skin Sens. 2; H317 Eye Irrit.; H320 Aquatic Chronic 2; H411
Alkyl glycidyl ether	68609-97-2	5% – 20%	Skin Irrit. 2; H315 Skin Sens. 2; H317
Pigment Red 101	1309-37-1	4% - 20%	Eye Irrit. 2; H319
Titanium Dioxide	13463-67-7	2% - 6%	Harmful if Inhaled; H332 Carc. 2; H351
Pigment Red 254	84632-65-5	0.5 – 7%	
Proprietary additive	Trade secret	0.1% - 5%	Aquatic Acute; H401

Chemical family: liquid epoxy resin

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

#### General advice

Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

#### Inhalation

If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.



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## **Skin Contact**

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

## **Eye Contact**

Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

## **Ingestion**

Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

## **Most important symptoms and effects, both acute and delayed**

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Eye disease. Skin disorders and Allergies. Asthma. Neurological disorders.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

Suitable extinguishing media

Water fog of fine spray.  
Carbon dioxide (CO<sub>2</sub>).  
Dry chemical.  
Dry sand.

### **Special hazards arising from the substance or mixture**

#### **Specific hazards**

Smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics. Carbon monoxide. Carbon dioxide.

#### **Special protective equipment for fire-fighters**

Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further information**

Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

### **Environmental precautions**

Construct a dike to prevent spreading.



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**Methods and material for containment and cleaning up**

Contact Res-Tek for advice. Approach suspected leak areas with caution. Place in appropriate chemical waste container.

**Additional advice**

Open enclosed spaces to outside atmosphere. If possible, stop flow of product.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Avoid contact with skin and eyes. Avoid contact with eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.

**Conditions for safe storage**

Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters**

**Occupational Exposure Limits**

**Occupational Exposure Limits**

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Titanium Dioxide	13463-67-7	5 mg/m3 (respirable)	10 mg/m3	-----	-----	-----
		10 mg/m3 (total dust)				

- TWA: Time Weighted Average; STEL: Short Term Exposure Limit; PEL: Permissible Exposure Limit; TLV: Threshold Limit Value

**Exposure controls**

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

**Personal protection equipment**

Respiratory protection

Wear appropriate respirator when ventilation is inadequate.



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Skin protection (Hand protection/ Other)



Butyl-rubber Nitrile rubber. Neoprene gloves. Impervious gloves. PVC disposable gloves. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Impervious clothing. Full rubber suit (rain gear). Rubber or plastic boots. Slicker Suit.

Eye/face protection



Full face shield with goggles underneath. Chemical resistant goggles must be worn.

Special instructions for protection and hygiene

Discard contaminated leather articles. Wash hands at the end of each work shift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

Exposure limit(s)

None established.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous. Liquid.
Odor	Odorless to mild.
Odor threshold	Not available.
pH	Not applicable.
Melting point /range	Not applicable.
Boiling point/range	608 °F (320 °C)
Flash Point	264 – 268°C (507 – 514°F) at 102.89 hPa
Evaporation rate (Butyl Acetate = 1)	Not available.
Flammability (solid, gas)	Not applicable.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Vapor pressure	<0.0000001 Pa EC Method A4
Relative vapor density	Not determined.
Relative density	1.36 at 20°C / 20°C Literature
Water solubility	5.4 – 8.4 mg/l at 20° C (68° F) EU Method A.6
Partition coefficient: n-octanol/water	Log Pow: 3.242 Estimated
Autoignition temperature	Not determined.
Decomposition temperature	No data available.
Viscosity	11,000 – 14,000mPa.s at 77°F(25°C).
Molecular weight	No data available.
Density	84.90 lb/ft3 (1.36 g/cm3) at 70 °F (21 °C)

## SECTION 10: STABILITY AND REACTIVITY

**Chemical stability**

Stable under normal conditions.

**Conditions to avoid**

Short term exposures to temperatures above 300°C.  
Potentially violent decomposition can occur above 350°C.  
Generation of gas during decomposition can cause pressure in closed systems.



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**Materials to avoid**

Avoid contact with oxidizing materials. Acids and amines.

**Hazardous decomposition products**

Gases are released during decomposition. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water.

**Possibility of hazardous reactions/reactivity**

No data available.

## SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

**Likely routes of exposure**

Effects on eye

Causes eye irritation.

Effects on skin

Causes skin irritation.

Inhalation effects

Harmful if inhaled and may cause delayed lung injury. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Ingestion effects

No data available.

Symptoms

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Eye disease., Skin disorders and Allergies., Asthma.

**Acute toxicity**

Acute oral toxicity

LD50 : 15,000 mg/kg Species : Rat.

Inhalation

LC50 (4h) : Species : Rat : not been determined.

Acute dermal toxicity

LD50 : 23,000 mg/kg Species : Rabbit.

**Skin corrosion/irritation**

Moderate skin irritation.

**Serious eye damage/eye irritation**

Moderate eye irritation.

**Sensitization**

Sensitization has occurred in laboratory animals after repeated exposures.

**Chronic toxicity or effects from long-term exposure**

Carcinogenicity

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA). Indeed, the most recent review of the available data by the international Agency for Research on Cancer (IARC) has concluded the DGEBA is not classified as a carcinogen.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has been assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

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NTP	IARC	ACGIH	OSHA
No	2B	No	No

Group 2B = Possibly carcinogenic to humans. (airborne, unbound particles of respirable size)

## Reproductive toxicity

Resins based on the diglycidyl ether of bisphenol A (DGEBA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

## Specific target organ systemic toxicity (single exposure)

Evaluation of the available data suggests that this material is not an STOT-SE toxicant.

## Specific target organ systemic toxicity (repeated exposure)

Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

## Aspiration hazard

Based on the physical properties, not likely to be an aspiration hazard.

## Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. May cause allergic skin reaction. Eye disease., Skin disorders and Allergies., Asthma.

## COMPONENTS INFLUENCING TOXICOLOGY

### Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers

#### Acute inhalation toxicity

The LC50 has not been determined.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

#### Acute toxicity in fish

Material is moderately toxic to aquatic organisms on the acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

#### Toxicity to fish

LC50 (96 h) : 2 mg/l  
Species : Rainbow trout (*Oncorhynchus mykiss*)

#### Acute toxicity to aquatic invertebrates

EC50 (48 h) : 1.8 mg/l  
Species : Water flea (*Daphnia magna*)

#### Acute toxicity in algae/aquatic plants

ErC50 (72 h) : 11 mg/l  
Species : *Scenedesmus capricornutum* (fresh water algae)

#### Toxicity to bacteria

IC50 (18h) : >42.6 mg/l  
Bacteria, Respiration rates.

#### Biodegradability

No data available.

#### Mobility

No data available.



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Bioaccumulation

No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste from residues/unused products

Contact supplier if guidance is required.

### Contaminated packaging

Dispose of container and unused contents in accordance with federal, state, and local requirements.

## SECTION 14: TRANSPORT INFORMATION

### DOT

Not regulated for transport

### IATA

UN/ID number

UN 3082

Proper shipping name

Environmentally hazardous substance, liquid, N.O.S., (Epoxy Resin)

Class or division

9

Packing group

III

Marine pollutant

Yes

### IMDG

UN/ID number

UN 3082

Proper shipping name

Environmentally hazardous substance, liquid, N.O.S., (Epoxy Resin)

Class or division

9

Packing group

III

### Further Information

The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact Res-Tek, Inc.

## SECTION 15: REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed.

### Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

### SARA 311/312 - Hazard Categories: None

☐ Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☐ Chronic (delayed)

### SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

### SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----





# EPO-LP (Liquid Pigment) LP-13 Safety Red EPO-Guard™ EPO-203, EPO-204, EPO-205 Part A

## Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
Titanium Dioxide	13463-67-7	2 - 6	Cancer (airborne, unbound particles of respirable size)

 **WARNING:** This product can expose you to chemicals including Titanium Dioxide, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Reference to Titanium Dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

Date of preparation: December 11, 2019

### Hazard Statement(s) Listed in: SECTION 3

Skin irritation; H315  
May cause an allergic skin reaction; H317  
Causes serious eye irritation; H319  
Causes eye irritation; H320  
Harmful if inhaled; H332  
Suspected of causing cancer; H351  
Toxic to aquatic life; H401  
Toxic to aquatic life with long lasting effects; H411

**Additional Information:** None.

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