

For paints / inks / plastic / Rubber industries Raw material available with us under self import / Manufacturing / Trading.

MATERIAL SAFETY DATA SHEET :- EPOXY RESIN

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

resin.

WARNING May cause skin irritation. May cause eye irritation. May cause allergic reaction. Clear, viscous liquid with mild odor.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause irritation.

INGESTION: Low acute oral toxicity.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin and respiratory disorders may be aggravated by exposure to this product. Pre-existing lung and skin allergies may increase the chance of developing allergic symptoms to this product.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIE	NTS		
INGREDIENT NAME	CAS#	<u>CONCENTRATION</u> (%)	
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	60-100	
Benzyl alcohol	100-51-6	10-30	
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	1-10	

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4. FIRST AID MEASURES

5. FIRE FIGHTING MEASURES

	FLASH POINT: EXTINGUISHING MEDIA:	>200°F (Tag Closed Cup)	
	SPECIAL FIRE FIGHTING PROCEDURES:	Foam, carbon dioxide (CO ₂), dry chemical.	
	protective equipment. Closed containers may rupture (due to buildup of FIRE AND EXPLOSION HAZARDS:	Wear a self-contained breathing apparatus and complete full-body personal of pressure) when exposed to extreme heat.	
	During a fire, smoke may contain the original materials in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: phenolics, carbon monoxide, carbon dioxide.		
6	ACCIDENTAL RELEASE MEASURES		

7. HANDLING AND STORAGE

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EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

rubber or natural rubber) and full body-covering clothing.

NIOSH/MSHA approved respirator with an organic vapor cartridge whenever exposure to vapor in concentrations above applicable limits is likely.

Note: West System, Inc. has conducted an air sampling study using this product or similarly formulated products. The results indicate that the components sampled for (epichlorohydrin, benzyl alcohol) were either so low that they were not detected at all or they were significantly below, OSHA's permissible exposure levels.

ADDITIONAL PROTECTIVE MEASURES: Practice good caution and personal cleanliness to avoid skin and eye contact. Avoid skin contact when removing gloves and other protective equipment. Wash thoroughly after handling. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

OCCUPATIONAL EXPOSURE LIMITS: Not established for product as whole. Refer to OSHA's Permissible ,Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients.

PHYSICAL AND CHEMICAL PROPERTIES 9.

PHYSICAL FORM:	
OLOR:	Clear.
DOR:	Mild.
BOILING POINT:	> 400°F
NELTING POINT/FREEZE POINT:	No data.
VISCOSITY:	1000 (cP)
)H:	No data.
OLUBILITY IN WATER:	
SPECIFIC GRAVITY:	1.15
BULK DENSITY:	
APOR PRESSURE:	
APOR DENSITY:	Heavier than air.
	ASTM D 2369-07 was used to determine the Volatile Content of mixed

10. STABILITY AND REACTIVITY

STABILITY:	
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HAZARDOUS POLYMERIZATION: Will not occur by itself, but a mass of more than one pound of product plus an aliphatic amine will cause irreversible polymerization with significant heat buildup.

DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and phenolics may be produced during uncontrolled exothermic reactions or when otherwise heated to decomposition

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11. TOXICOLOGICAL INFORMATION

No specific oral, inhalation or dermal toxicology data is known for this product. Specific toxicology information for a bisphenol-A based epoxy resin present in this product is indicated below:

Oral: Inhalation:	LD5 0 >5000 mg/kg (rats) No Data.
Dermal:	LD ₅₀ = 20,000 mg/kg (skin absorption in rabbits)
	Diglycidyl ether bisphenol-A (DGEBPA) did not cause birth defects or other adverse sposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed

REPRODUCTIVE EFFECTS:DGEBPA, in animal studies, has been shown not to interfere with reproduction.

MUTAGENICITY:DGEBPA in animal mutagenicity studies were negative. In vitro mutagenicity tests were negative in some cases and positive in others.

CARCINOGENICITY:

NTP	
IARC	
OSHA	

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol-A. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBPA is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBPA is not classified as a carcinogen.

Epichlorohydrin, an impurity in this product (<5 ppm) has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells. It has been established by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (Group 2A) based on the following conclusions: human evidence – inadequate; animal evidence – sufficient. It has been classified as an anticipated human carcinogen by the National Toxicology Program (NTP). Note: It is unlikely that normal use of this product would result in measurable exposure concentrations to this substance.

12. ECOLOGICAL INFORMATION

In the non-cured liquid form this product may cause long-term harm if released to the environment. Prevent entry into sewers and natural waters.

Movement and Partitioning:

Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Kow between 3 and 5).

Degradation and Transformation:

Theoretical oxygen demand is calculated to be 2.35 p/p. 20-day biochemical oxygen demand is <2.5%.

Ecotoxicology:

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

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13. DISPOSAL CONSIDERATIONS WASTE DISPOSAL METHOD: Evaluation of this product using RCRA criteria shows that it is not a hazardous waste, either by listing or characteristics, in its purchased form. It is the responsibility of the user to determine proper disposal methods, Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

HIPPING NAME:	
ECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	Not applicable.
U.N./N.A. NUMBER:	Not applicable.
PACKING GROUP:	Not applicable.
IMDG	
SHIPPING NAME:	Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME:	Epoxy Resin.
HAZARD CLASS:	Class 9.
U.N. NUMBER:	UN3082.
PACKING GROUP:	PG III.
EmS Number:	F-A, S-F
MARINE POLLUTANT	Yes
ІСАОЛАТА	
SHIPPING NAME:	Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME:	Epoxy Resin.
HAZARD CLASS:	Class 9.
U.N. NUMBER:	UN3082.
PACKING GROUP:	PG III.
MARINE POLLUTANT:	Yes
REGULATORY INFORMATION	
OSHA STATUS:	Irritant.
TSCA STATUS:	All components are listed on TSCA inventory or otherwise comply with
TSCA requirements.	······································
Canada WHMIS Classification:	D2B - Toxic material causing other toxic effects.

None (deminimus).

All components are listed or are otherwise compliant with CEPA

SECTION 313 TOXIC CHEMICALS

The following chemicals are specifically listed or otherwise regulated by individual states. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME /CAS NUMBER	CONCENTRATION	STATE CODE
Epichlorohydrin 106-89-8 Benzyl alcohol	< 5ppm	¹ CA
100-51-6		MA, PA, NJ

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These substances are known to the state of California to cause cancer or reproductive harm, or both.

8. OTHER INFORMATION

REASON FOR ISSUE:	
PREPARED BY:	
APPROVED BY:	
TITLE:	ſ
APPROVAL DATE: April 26, 2013	
SUPERSEDES DATE:	
MSDS NUMBER: 105-13a	

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