

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FLEXIBLE EPOXY PART B

HMIS CODES: H F R P

PRODUCT CODE: Flexible Epoxy-B

2 1 0 C

SECTION 1: MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: EPOXY SYSTEMS, INC.
ADDRESS: 20774 W. Pennsylvania Ave.
Dunnellon, FL 34431

EMERGENCY NUMBER: 1-802-343-3229 DATE PRINTED 6/2010
INFORMATION NUMBER: 1-802-899-2844 PREPAIRER N. LAMBERT

SECTION 2. HAZARDOUS
INGREDIENTS

		ACGIH			
HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	TLV	WT %	CARCINOGEN
Polyoxypropylenediamine	9046-10-0	NE	NE	25-45	NO
Aliphatic Amines	140-31-8	NE	NE	10-30	NO
Alkyl Phenol	84852-15-3	NE	NE	50-70	NO

Substances listed are present in concentration of 1% or greater, or 0.1% if cited as a potential Carcinogen in the OSHA hazards communication standard. Where proprietary ingredient is listed, the identity is provided in 29 CFR 1910.1200.

NE Not Established

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT >390DEGREES F
VAPOR DENSITY NE
VAPOR PRESSURE Approx. 1mm Hg @ 200 DEGREES F
VOC 0.00
SOLUBILITY IN WATER Partial
APPEARANCE Low viscosity with sharp ammonia odor
SPECIFIC GRAVITY (H2O=1) 0.99
EVAPORATION RATE NE

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >200 DEGREES F
METHOD USED: Closed Cup
FLAMMABLE LIMITS IN AIR BY VOLUME LOWER: Not determined
UPPER: Not determined
EXTINGUISHING MEDIA: Foam, dry chemical, CO2
OSHA FLAMMABILITY CLASSIFICATION: Combustible liquid, Class III B
SPECIAL FIRE FIGHTING PROCEDURES: Wear positive pressure self contained breathing equipment. Use water to cool containers exposed to fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic fumes present when this material involved in fire. Containers may rupture.

SECTION 5: REACTIVITY DATA

STABILITY: Normally Stable.
CONDITIONS TO AVOID: Contact with acids such as Hydrochloric or Sulfuric.
INCOMPATIBILITY (MATERIALS TO AVOID): Avoid strong oxidizing agents and epoxy resins under uncontrolled conditions.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: When exposed to fire, oxides of Carbon and Nitrogen will be generated.
HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION 6: HEALTH HAZARD DATA

HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

INHALATION: Vapors can cause severe irritation of respiratory tract.

SKIN: Corrosive .Can cause burns to skin.

EYE: Vapors .Can cause irritation and burns to eyes.

INGESTION: Can cause severe damage to mouth and throat. **HEALTH HAZARDS**
(ACUTE AND CHRONIC):

CARCINOGENICITY:

NTP **CARCINOGEN:** NO IARC MONOGRAPHS: NO OSHA REGULATED: NO MEDICAL CONDITIONS

GENERALLY AGGRAVATED BY EXPOSURE: Skin contact may aggravate existing dermatitis (skin condition). Over exposure to vapor or mist may aggravate existing respiratory conditions such as asthma, bronchitis, or fibrotic respiratory disease.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush immediately for 15 minutes with large amounts of potable water. DO NOT attempt to neutralize with chemical agents. Get immediate medical attention.

SKIN: Flush immediately for 15 minutes with potable water. DO NOT attempt to neutralize with chemical agents. Remove contaminated clothing. Launder before reuse. Discard contaminated shoes. Get medical attention if swelling and/or irritation occurs.

INGESTION: Give water to dilute stomach contents. DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

INHALATION: Remove to fresh air. Get medical attention if effects persist.

OTHER INSTRUCTIONS: Swallowing this corrosive material may result in severe ulceration, inflammation, and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this product during induced emesis can result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Control Center for additional treatment information.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid contact.

Allow only personnel wearing goggles, neoprene or rubber gloves and protective clothing to clean up spill. In confined areas a full face respirator is recommended. Absorb spill with clay, diatomaceous earth or other absorbent material. Place in disposal containers.

WASTE DISPOSAL METHOD: Dispose of in approved incinerator or an approved landfill.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid contact. Keep containers tightly closed when not in use. Do not remove labels from empty containers. If mixtures of Part B and Part A are allowed to remain in the mixing container past the pot life deadline, heat and a strong reaction will result.

OTHER PRECAUTIONS: none

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION: If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self contained breathing equipment or a full face respirator.

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SECTION 8: CONTROL MEASURES (CON'T)

VENTILATION: Mechanical ventilation required if TLV is expected to be exceeded in confined areas.

PROTECTIVE GLOVES: Neoprene or natural rubber gloves

EYE PROTECTION: Chemical goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Body covering clothes .

WORK/HYGIENIC PRACTICES: Practice good industrial hygiene. Wash with soap and water before eating, smoking, or using the restroom.

SECTION 9: REGULATORY INFORMATION

SARA TITLE III SECTION 313: Unless shown below, this product does not contain the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

CAS #	Chemical Name	Percent by Weight
	None	

PROP 65 (CARCINOGEN): Unless shown below, this product does not contain chemicals known to the state of California to cause cancer.

CAS *	Chemical Name	Percent by Weight
	None	

PROP 65 (TERATOGENIC): Unless shown below, this product does not contain chemicals known to the state of California to cause birth defects or other reproductive harm.

CAS *	Chemical Name	Percent by Weight
	None	

PROP 65 (CARCINOGENIC & TERATOGENIC): Unless shown below, this product does not contain chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

CAS *	Chemical Name	Percent by Weight
	None	

HAZARDOUS WASTE INFORMATION: Unless shown below, this product is not a hazardous waste according to definitions found in CFR-40.

STATE OF MICHIGAN CRITICAL MATERIALS: Unless shown below, this product does not contain ingredients appearing on the State of Michigan Critical Materials List.

CAS *	Chemical Name	Percent by Weight
	None	

D. O. T. PROPER SHIPPING NAME: Synthetic Hardener Liquid

PROPER SHIPPING NAME: Synthetic Hardener Liquid

HAZARD CLASS: non-hazardous

UN/NA ID NUMBER:

PACKING GROUP:

SECTION 10: DISCLAIMER

Data and recommendations presented herein are based upon our and other researchers and are believed to be accurate. The products discussed are distributed without warranty (expressed or implied) and the customer shall make his own determination of suitability for his particular purpose.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PIGMENTED FLEXIBLE EPOXY PART A
PRODUCT CODE: Flexible Epoxy-000

HMS CODES: H F R P
1 1 0 B

SECTION 1: MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: EPOXY SYSTEMS, INC.
ADDRESS: 74 Plains Road
Jericho, VT 05465

EMERGENCY NUMBER: 1-800-424-9300
INFORMATION NUMBER: 1-802-899-2844

DATE PRINTED: 10/23/98
PREPARER: N. LAMBERT

SECTION 2: HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH		WT %	CARCINOGEN
			TLV			
Epoxy Resin	25068-38-6	NE	NE		60-80	NO
Polypropylene Glycol Glycidyl Ether	9072-62-2	NE	NE		20-40	
Talc	14807-96-6	2 mg/m ³	2 mg/m ³		10-20	NO

The exposure limits established for ingredients of this product apply to nuisance dusts from inert fillers. These fillers are blended into a liquid and pose no hazard as supplied.

Substances listed are present in concentration of 1% or greater, or 0.1% if cited as a potential Carcinogen in the OSHA hazards communication standard. Where proprietary ingredient is listed, the identity is available as provided in 29 CFR 1910.1200.

NE - Not Established

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	NA
VAPOR DENSITY	Heavier than Air
VAPOR PRESSURE	N/A
VOC	0
SOLUBILITY IN WATER	Negligible
APPEARANCE AND ODOR	Clear Liquid, mild odor
SPECIFIC GRAVITY (H2O=1)	1.14
EVAPORATION RATE	Slower than N-Butyl Acetate

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >200° F

METHOD USED: SFCC

FLAMMABLE LIMITS IN AIR BY VOLUME LOWER: Not determined
UPPER: Not determined

EXTINGUISHING MEDIA: Water spray, dry chemical, Foam, Carbon Dioxide

OSHA FLAMMABILITY CLASSIFICATION: Combustible liquid, Class III A

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters and others exposed to vapors of combustion should wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May produce hazardous fumes or hazardous decomposition products.

SECTION 5: REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY (MATERIALS TO AVOID): Strong Amines and Acids

SECTION 5: REACTIVITY DATA (CON'T)

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, Carbon Dioxide, Aldehydes and Acids.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 6: HEALTH HAZARD DATA

HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

INHALATION: Heating can generate vapors that could cause headache, nausea, dizziness, and respiratory irritation if inhaled.

SKIN CONTACT: Prolonged or repeated contact of product with skin may cause irritation and could result in dermatitis. May cause sensitization or other allergic reaction.

EYE CONTACT: Direct contact of product with eyes can cause irritation.

INGESTION: Slightly toxic.

HEALTH HAZARDS (ACUTE AND CHRONIC):

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush eyes with generous amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash affected areas with water while removing contaminated clothing. Launder contaminated clothing before reuse.

INGESTION: If swallowed, DO NOT INDUCE VOMITING. Dilute with water and call a physician immediately. Never give fluids or induce vomiting if victim is unconscious or having convulsions.

INHALATION: Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Soak up in absorbent material or scrape up. Residual can be removed with non-flammable solvent.

WASTE DISPOSAL METHOD: Burn in adequate incinerator or bury in an approved landfill in accordance with local, state or Federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool, dry, well ventilated area away from excessive heat or open flame.

OTHER PRECAUTIONS: Avoid breathing of vapors. Practice good personal hygiene and exercise caution to avoid skin and eye contact.

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH/MSHA approved organic vapor respirator when vapors are generated above the permissible limit.

VENTILATION: Good general mechanical ventilation and local exhaust.

PROTECTIVE GLOVES: Plastic or rubber.

EYE PROTECTION: Safety glasses with side shields or chemical goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Clean body covering clothing. A safety shower and eye wash facility should be available.

WORK/HYGIENIC PRACTICES: Wash thoroughly before eating, drinking, or smoking.

SECTION 9: REGULATORY INFORMATION

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CAS #	Chemical Name	Percent by Weight
106-89-8	Epichlorohydrin	trace

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CAS #	Chemical Name	Percent by Weight
	None	

PROP 65 (TERATOGENIC): Unless shown below, this product does not contain chemicals known to the state of California to cause birth defects or other reproductive harm.

CAS #	Chemical Name	Percent by Weight
	None	

PROP 65 (CARCINOGENIC & TERATOGENIC): Unless shown below, this product does not contain chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

CAS #	Chemical Name	Percent by Weight
	None	

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CAS #	Chemical Name	Percent by Weight
	None	

D. O. T. PROPER SHIPPING NAME: Synthetic Resin Liquid

PROPER SHIPPING NAME: Synthetic Resin Liquid

HAZARD CLASS: non-hazardous

UN/NA ID NUMBER:

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