

EpoxyMaster®

MATERIAL SAFETY DATA SHEET

MFG.CODE # EM-CPK

SECTION I

MANUFACTURER'S NAME EpoxyMaster		EMERGENCY TELEPHONE NO: CHEMTREC: 800-424-9300	
ADDRESS (Street, City, State and Zip Code) 900 Wilshire Drive, Suite 202 Troy, MI 48084-4726			
CHEMICAL NAME AND SYNONYMS	N/A	TRADE NAME AND SYNONYMS EM-PATCH (PART A)	
CHEMICAL FAMILY	N/A	FORMULA N/A	

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (UNITS)
Biphenyl A/Epichlorohydrin Based Epoxy Resin	(CAS# 25068-38-6)	>1 N/A
Oxirane, mono[(C12-14-alkyloxy)methyl] derivates	(CAS# 68069-97-2)	>1 N/A
Oxirane, mono[(C12-13-alkyloxy)methyl] derivates	(CAS# 012547-52-6)	>1 N/A

All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

BOILING POINT °F	200+	SPECIFIC GRAVITY (H2O = 1)	1.13
VAPOR PRESSURE (mm. Hg. @ 20°C)	0.09	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR = 1)	heavier	EVAPORATION RATE (=1) N-Butyl Acetate	slower
SOLUBILITY IN WATER	negligible	PH	N/A

APPEARANCE AND ODOR

Clear to yellow viscous liquid with characteristic acrylate odor.

SECTION IV – FIRE AND EXPLOSION DATA

FLASH POINT (Method Used) 200°F (Setaflash)	FLAMMABLE LIMITS	LeI	UeI
		Not	Determined

EXTINGUISHING MEDIA

Water Fog, Dry Chemical, Foam, Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES

Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode. Use water spray to keep containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of containers.

(Continued on reverse side)

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE No OSHA/ACGIH limits have been established	PRIMARY ROUTES OF ENTRY Inhalation Skin Contact <input checked="" type="checkbox"/> Other (Specify)		
EFFECTS OF OVEREXPOSURE Eyes - moderately irritating. Skin - moderate irritation, prolonged contact may cause blisters, may cause skin sensitization. Inhalation - may cause respiratory tract sensitization/irritation.			
EMERGENCY AND FIRST AID PROCEDURE Eyes - flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation - get medical attention. Skin - flush with water and then wash with soap and water, launder contaminated clothing before reuse - get medical attention if irritation persists. Inhalation - remove to fresh air and assist breathing as necessary - get medical attention. Ingestion - DO NOT INDUCE VOMITING. Rinse out mouth with water, then drink sips of water – get medical attention.			
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Pre-existing skin and eye disorders may be aggravated. Persons with pre-existing skin or respiratory tract allergies may have an increased chance of allergic reactions to this product.			
CARCINOGEN: No	NTP	IARC	OTHER

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE	X	CONDITIONS TO AVOID
	STABLE		Excessive heat
INCOMPATIBILITY (Materials to avoid) Strong Acids, Bases, Amines, Mercaptans			
HAZARDOUS DECOMPOSITION PRODUCTS Oxides of Carbon, Aldehydes, and other organic substances			
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID
	WILL NOT OCCUR		None

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate all sources of ignition and ventilate area. Dike area to contain spill. Use absorbent material to soak up spill. Shovel or sweep into container for disposal. Wash spill area with detergent solution.
WASTE DISPOSAL METHOD In accordance with all Local, State, and Federal Regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

SPECIAL RESPIRATORY PROTECTION (Specify type) Use NIOSH approved respirator if product has been heated to produce vapors.		
VENTILATION	LOCAL EXHAUST Normal ventilation adequate	SPECIAL N/A
	MECHANICAL (General) Normal ventilation adequate	OTHER NA
PROTECTIVE GLOVES Impervious	EYE PROTECTION Chemical Goggles	
OTHER PROTECTIVE EQUIPMENT Eyewash and safety shower.		

SECTION IX – SPECIAL PRECAUTIONS

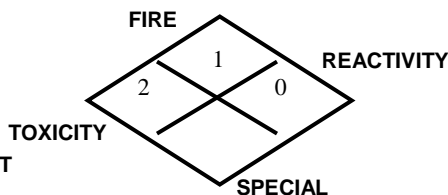
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Avoid contact - wear protective clothing and wash thoroughly after using. Avoid inhalation of vapors - use only with adequate ventilation. Do not take internally. Avoid storage in areas of excessive heat or near sources of ignition.
OTHER PRECAUTIONS Keep Out of Reach of Children

HMIS SYMBOL

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

	HMIS	NFPA			
	SEVERE	4	EXTREME		
	SERIOUS	3	HIGH		
	MODERAT	2	MODERATE		
	SLIGHT	1	SLIGHT		
	MINIMAL	0	INSIGNIFICANT		

NFPA SYMBOL



NAME
SIGNATURE
TITLE
PREPARATION DATE February 28, 2015
PHONE NUMBER CHEMTREC: 800-424-9300
PAGE TWO: EM-PATCH (PART A)

EpoxyMaster®

MATERIAL SAFETY DATA SHEET

MFG.CODE # EM-CPK

SECTION I

MANUFACTURER'S NAME EpoxyMaster		EMERGENCY TELEPHONE NO: CHEMTREC: 800-424-9300	
ADDRESS (Street, City, State and Zip Code) 900 Wilshire Drive, Suite 202 Troy, MI 48084-4726			
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS EM-PATCH (PART B)	
CHEMICAL FAMILY N/A		FORMULA N/A	

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (UNITS)
Modified Polyethylene polyamine Adducts	<1	N/A
Diethylenetriamine	(CAS# 111-40-0) <1	N/A
4,4'-Isopropylidenebisphenol	(CAS# 80-05-7) <1	N/A.
Tetraethylethepentamine	(CAS# 112-57-2) <1	N/A.

All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

BOILING POINT °F	475+	SPECIFIC GRAVITY (H2O = 1)	1.0
VAPOR PRESSURE (mm. Hg.)	0.1	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR = 1)	heavier	EVAPORATION RATE (=1) n-Butyl Acetate	1
SOLUBILITY IN WATER	slight	PH	11.5
APPEARANCE AND ODOR Amber liquid with amine odor.			

SECTION IV – FIRE AND EXPLOSION DATA

FLASH POINT (Method Used) 200+°F Setaflash	FLAMMABLE LIMITS	LeI	UeI
		N/A	N/A
EXTINGUISHING MEDIA Water Fog, Alcohol Foam, Dry Chemical, Carbon Dioxide			
SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode. Use water spray to keep containers cool.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Nitrogen Oxides and Nitrogen containing organic material may be released upon combustion may cause lung damage (Pulmonary edema).			

(Continued on reverse side)

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 700 ppm/ H	PRIMARY ROUTES OF ENTRY Inhalation X Skin Contact X Other (Specify)		
EFFECTS OF OVEREXPOSURE Eyes - vapors and liquid are irritating and corrosive to eyes - prolonged contact may cause blindness. Skin - corrosive to skin may cause sensitization. Inhalation - may be corrosive to upper respiratory tract, may be toxic if inhaled. Ingestion - corrosive to mouth, throat, and stomach.			
EMERGENCY AND FIRST AID PROCEDURE Eyes - flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation - get medical attention. Skin - remove contaminated clothing and flush with water and then wash with soap and water, launder contaminated clothing before reuse - get medical attention. Inhalation - remove to fresh air and assist breathing as necessary - get medical attention. Ingestion - DO NOT INDUCE VOMITING - give one glass of water unless victim is drowsy, convulsing, or unconscious - get medical attention immediately.			
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Persons with pre-existing eye, skin, or respiratory disorders.			
CARCINOGEN: No	NTP	IARC	OTHER

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE	X	CONDITIONS TO AVOID
	STABLE		Excessive heat and open flames
INCOMPATIBILITY (Materials to avoid) Strong Oxidizers			
HAZARDOUS DECOMPOSITION PRODUCTS Oxides of Carbon and Nitrogen, Nitrogen containing organic compounds			
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID None
	WILL NOT OCCUR		

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate all sources of ignition and ventilate area. Use absorbent material to soak up spill. Shovel or sweep into container for disposal. Clean area with detergent solution.	
WASTE DISPOSAL METHOD In accordance with all Local, State, and Federal Regulations.	

SECTION VIII – SPECIAL PROTECTION INFORMATION

SPECIAL RESPIRATORY PROTECTION (Specify type) Use NIOSH approved respirator in areas where TLV has been exceeded.		
VENTILATION	LOCAL EXHAUST To control TLV	SPECIAL N/A
	MECHANICAL (General) To control TLV	OTHER N/A
PROTECTIVE GLOVES Impervious	EYE PROTECTION Chemical Goggles	
OTHER PROTECTIVE EQUIPMENT Eyewash and safety shower.		

SECTION IX – SPECIAL PRECAUTIONS

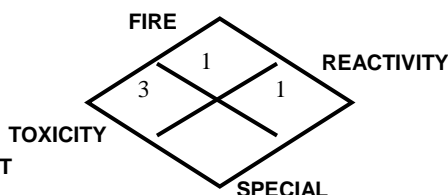
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING CORROSIVE MATERIAL- avoid contact- wear protective clothing and wash thoroughly after using. Avoid inhalation of vapors or mists - use only with adequate ventilation. Do not take internally. Avoid storage in areas of excessive heat or near sources of ignition.
OTHER PRECAUTIONS Keep container closed when not in use. Keep Out of Reach of Children

HMIS SYMBOL

HEALTH	3
FLAMMABILITY	1
REACTIVITY	1

	HMIS	NFPA
SEVERE	4	EXTREME
SERIOUS	3	HIGH
MODERATE	2	MODERATE
SLIGHT	1	SLIGHT
MINIMAL	0	INSIGNIFICANT

NFPA SYMBOL



NAME
SIGNATURE
TITLE
PREPARATION DATE February 28, 2015
PHONE NUMBER CHEMTREC: 800-424-9300
PAGE TWO: EM-PATCH (PART B)

EpoxyMaster®

MATERIAL SAFETY DATA SHEET

MFG.CODE # EM-CPK

SECTION I

MANUFACTURER'S NAME EpoxyMaster		EMERGENCY TELEPHONE NO: CHEMTREC: 800-424-9300	
ADDRESS (Street, City, State and Zip Code) 900 Wilshire Drive, Suite 202 Troy, MI 48084-4726			
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS EM-PATCH (PART C)	
CHEMICAL FAMILY N/A		FORMULA N/A	

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES		%	TLV (UNITS)
Silicon Dioxide	(CAS# 7631-86-9)	>1	10 mg/m ³

All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

BOILING POINT °F	N/A	SPECIFIC GRAVITY (H2O = 1)	70 lbs/ft
VAPOR PRESSURE (mm. Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (=1)	N/A
SOLUBILITY IN WATER	insoluble	PH	N/A
APPEARANCE AND ODOR Grey granules with no odor.			

SECTION IV – FIRE AND EXPLOSION DATA

FLASH POINT (Method Used) None	FLAMMABLE LIMITS	LeI	UeI
		N/A	N/A
EXTINGUISHING MEDIA Use extinguishing media suitable for fighting surrounding fire.			
SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

(Continued on reverse side)

