

# **SAFETY DATA SHEET**

Issue Date 08-Jun-2010 Revision Date 21-Aug-2017 Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name EMA Epoxy Adhesive Part B

Other Means of Identification

**SDS #** PAN-002

Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Epoxy hardener.

Details of the Supplier of the Safety Data Sheet

**Supplier Address** 

Panduit 18900 Panduit Dr. Tinley Park, IL 60487

**Emergency Telephone Number** 

Company Phone Number Phone: 708-532-1800

Fax: 708-532-1811

Emergency Telephone INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

## Classification

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

#### Signal Word

Danger

## **Hazard Statements**

Causes skin irritation
Causes severe eye irritation
May cause cancer

Causes damage to organs through prolonged or repeated exposure



AppearanceBlack pastePhysical StatePasteOdorMercaptan

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Get medical attention if irritation occurs

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## **Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed

#### **Other Hazards**

Very toxic to aquatic life with long lasting effects

Very toxic to aquatic life

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Aluminum Hydroxide	21645-51-2	30-60
Polymercaptan Hardener	PROPRIETARY	30-60
Distillates, petroleum, heavy thermal cracked	64741-81-7	5-10
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	5-10
Styrene	100-42-5	1-5
Silica, fumed	112945-52-5	1-5
Ethylene glycol	107-21-1	1-5
Benz[a]anthracene	56-55-3	0.1-1

#### 4. FIRST AID MEASURES

#### **First Aid Measures**

**General Advice** If exposed or concerned: Get medical advice/attention.

**Inhalation** If symptomatic, move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms persist, call a physician.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation occurs.

**Ingestion** Do not induce vomiting without medical advice. If symptoms persist, call a physician.

**Skin Contact** IF ON SKIN: Wash with plenty of soap and water. If irritation occurs: Get medical

advice/attention. Take off contaminated clothing. Wash contaminated clothing before reuse.

#### Most Important Symptoms and Effects, both Acute and Delayed

**Symptoms** May cause nausea, vomiting, stomach ache, and diarrhea. May cause shortness of breath,

nausea, dizziness, and headache. May cause respiratory irritation. May cause allergic skin reaction. Eyes may have symptoms of redness, itching, irritation and watering from

overexposure. May cause skin irritation with redness and swelling.

#### Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Closed containers may explode due to buildup of pressure when exposed to extreme heat.

**Hazardous Combustion** 

**Products** 

Carbon oxides. Irritating organic fragments.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Immediately contact emergency personnel. Use personal protective equipment as required.

Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Remove

all sources of ignition.

**Environmental Precautions** See Section 12 for additional ecological information. Keep out of waterways.

## Methods and Material for Containment and Cleaning Up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed

containers for disposal. Wash area with soap and water.

#### 7. HANDLING AND STORAGE

## **Precautions for Safe Handling**

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special

instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands, and any exposed skin thoroughly after handling. Wear eye/face protection. Keep away from

heat/sparks/open flames/hot surfaces. — No smoking. Do not breathe

dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Do not eat, drink

or smoke when using this product.

#### Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Store locked up. Keep container tightly closed and store in a cool, dry and well-ventilated

place. Keep away from incompatible materials, open flames, and high temperatures.

Keep/store only in original container.

**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum Hydroxide	TWA: 1 mg/m <sup>3</sup> respirable	-	-
21645-51-2	fraction		
Styrene	STEL: 40 ppm	TWA: 100 ppm	IDLH: 700 ppm
100-42-5	TWA: 20 ppm	(vacated) TWA: 50 ppm	TWA: 50 ppm
		(vacated) TWA: 215 mg/m <sup>3</sup>	TWA: 215 mg/m <sup>3</sup>
		(vacated) STEL: 100 ppm	STEL: 100 ppm
		(vacated) STEL: 425 mg/m <sup>3</sup>	STEL: 425 mg/m <sup>3</sup>
		Ceiling: 200 ppm	
Ethylene glycol	Ceiling: 100 mg/m <sup>3</sup> aerosol only		-
107-21-1		(vacated) Ceiling: 125 mg/m <sup>3</sup>	
Silica, fumed	-	TWA: 20 Million particles per	-
112945-52-5		cubic feet	

#### **Appropriate Engineering Controls**

Engineering Controls Provide adequate local exhaust ventilation to maintain worker exposure below exposure

limits. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

#### Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Chemical resistant, impermeable gloves.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State Paste
Appearance Black pa

AppearanceBlack pasteOdorMercaptanColorBlackOdor ThresholdNot available

Property Values Remarks • Method

pH Not applicable
Melting Point/Freezing Point Not available

**Boiling Point/Boiling Range** > 140 °C / 300.2 °F

Flash Point > 93 °C / 199.4 °F Tag Closed Cup

Evaporation Rate Not available Flammability (Solid, Gas) Not determined Upper Flammability Limits Not available

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Lower Flammability LimitNot availableVapor PressureNegligibleVapor DensityNot available

Specific Gravity 1.4

Water Solubility Slightly soluble Solubility in Other Solvents Not determined **Partition Coefficient** Not available **Autoignition Temperature** Not available **Decomposition Temperature** Not determined Not determined **Kinematic Viscosity Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

**VOC Content** 0.04% (value for resin and hardener together)

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Contact with incompatible materials. Excessive heat.

#### **Incompatible Materials**

Strong oxidizing agents. Strong acids. Strong bases.

#### **Hazardous Decomposition Products**

Carbon oxides. Irritating organic fragments.

## 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

**Product Information** 

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact** Causes severe eye irritation.

**Skin Contact** Causes skin irritation.

**Ingestion** May be harmful if swallowed.

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#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Hydroxide 21645-51-2	> 5000 mg/kg (Rat)	-	-
Distillates, petroleum, heavy thermal cracked 64741-81-7	= 4320 mg/kg ( Rat )	> 2000 mg/kg (Rat ) > 2000 mg/kg (Rabbit)	-
2,4,6-Tri(dimethylaminomethyl)phen ol 90-72-2	= 1000 mg/kg (Rat)	= 1280 mg/kg (Rat)	-
Styrene 100-42-5	= 1000 mg/kg (Rat)	-	= 11.8 mg/L (Rat)4 h
Ethylene glycol 107-21-1	= 4000 mg/kg (Rat)	= 9530 μL/kg (Rabbit)	-
Silica, fumed 112945-52-5	= 3160 mg/kg (Rat)	-	-

#### Information on Physical, Chemical and Toxicological Effects

**Symptoms** Please see section 4 of this SDS for symptoms.

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

However, the product as a whole has not been tested.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Styrene 100-42-5		Group 2B	Reasonably Anticipated	X
Silica, fumed 112945-52-5		Group 3		
Benz[a]anthracene 56-55-3	A2	Group 2B	Reasonably Anticipated	Х

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

Carcinogenicity

A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**STOT - Repeated Exposure** Causes damage to organs through prolonged or repeated exposure.

#### **Numerical Measures of Toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Distillates, petroleum, heavy		48: 96 h Brachydanio rerio		
thermal cracked		mg/L LC50 semi-static		
64741-81-7				
Styrene		3.24 - 4.99: 96 h Pimephales	EC50 = 5.4  mg/L  5  min	3.3 - 7.4: 48 h Daphnia
100-42-5	subcapitata mg/L EC50 0.72:	promelas mg/L LC50		magna mg/L EC50
	96 h Pseudokirchneriella	flow-through 19.03 - 33.53:		
	subcapitata mg/L EC50 0.46	96 h Lepomis macrochirus		
	- 4.3: 72 h	mg/L LC50 static 6.75 - 14.5:		
	Pseudokirchneriella	96 h Pimephales promelas		
	subcapitata mg/L EC50	mg/L LC50 static 58.75 -		
	static 0.15 - 3.2: 96 h	95.32: 96 h Poecilia		
	Pseudokirchneriella	reticulata mg/L LC50 static		
	subcapitata mg/L EC50			
	static			
Ethylene glycol	6500 - 13000: 96 h	41000: 96 h Oncorhynchus	EC50 = 10000 mg/L 16 h	46300: 48 h Daphnia magna
107-21-1	Pseudokirchneriella	mykiss mg/L LC50 14 - 18:	EC50 = 620 mg/L 30 min	mg/L EC50
	subcapitata mg/L EC50	96 h Oncorhynchus mykiss	EC50 = 620.0 mg/L 30 min	
		mL/L LC50 static 27540: 96		
		h Lepomis macrochirus mg/L		
		LC50 static 40761: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 static 40000 - 60000:		
		96 h Pimephales promelas		
		mg/L LC50 static 16000: 96		
		h Poecilia reticulata mg/L		
		LC50 static		
Benz[a]anthracene 56-55-3			EC50 = 0.26 mg/L 15 min	0.01: 96 h Daphnia magna mg/L LC50 Static 0.0042: 48
				h Daphnia magna mg/L EC50

## Persistence and Degradability

Not determined

#### **Bioaccumulation**

Not determined

## **Mobility**

Chemical Name	Partition Coefficient
Styrene 100-42-5	2.95
Ethylene glycol 107-21-1	-1.93
Benz[a]anthracene 56-55-3	5.61

#### **Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

US EPA Waste Number The following US EPA waste codes apply.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Benz[a]anthracene	U018	Included in waste streams:		U018
56-55-3		F032, F034, F039, K001,		
		K035, K141, K142, K143,		
		K144, K145, K147, K148,		
		K170		!

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Styrene	Toxic
100-42-5	Ignitable

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

IATA Not regulated

**IMDG** Not regulated

## 15. REGULATORY INFORMATION

#### **International Inventories**

Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Styrene	1000 lb		RQ 1000 lb final RQ
100-42-5			RQ 454 kg final RQ
Ethylene glycol	5000 lb		RQ 5000 lb final RQ
107-21-1			RQ 2270 kg final RQ
Benz[a]anthracene	10 lb		RQ 10 lb final RQ
56-55-3			RQ 4.54 kg final RQ

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Styrene - 100-42-5	100-42-5	1-5	0.1
Ethylene glycol - 107-21-1	107-21-1	1-5	1.0
Benz[a]anthracene - 56-55-3	56-55-3	0.1-1	0.1

#### **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Styrene 100-42-5 ( 1-5 )	1000 lb			X
Benz[a]anthracene 56-55-3 ( 0.1-1 )		X	Х	

#### US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Benz[a]anthracene - 56-55-3	Carcinogen

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Styrene 100-42-5	X	X	Х
Ethylene glycol 107-21-1	X	X	Х
Benz[a]anthracene 56-55-3	X	X	X

## **16. OTHER INFORMATION**

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS_	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2*	1	1	Not determined

Chronic Hazard Star Legend \*= Chronic Health Hazard

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#### <u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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10351-0 561-TA250125B 20015-0 10350-0 10029-0 08484-0 08446-0 08318-0 PAM075NY-A-C MTH1-3 10044 151-01802 151-11319
151-11819 PLWP1SB-D PLWP1M-C PLWP2SA-D PLWP2SB-D PLWP2S-C PLWP1S-D PLWP1M-D TA1S8-C ABM3H-A-L ABM3H-AT-T0 EMS-A-C0 EMSK3-1-3-0 10079 151-10930 151-10920 3590 151-28320 151-28349 151-28530 151-10914 151-10904 151-10915
151-10916 151-10906 115-06960 06297