

SAFETY DATA SHEET

Issue Date 08-Jun-2013 Revision Date 21-Aug-2017 Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name EMA Epoxy Adhesive Part A

Other Means of Identification

SDS # PAN-001

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Epoxy resin.

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 2

Signal Word

Warning

Hazard Statements

Causes skin irritation
Causes severe eye irritation
Suspected of causing cancer





Appearance White paste Physical State Paste Odor Mild

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

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

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Bisphenol A - Epichlorohydrin polymer	25068-38-6	30-60
Aluminum Hydroxide	21645-51-2	30-60
Titanium Dioxide	13463-67-7	5-10

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 Causes skin irritation. May cause allergic skin reaction. Skin contact can lead to drying,

defatting, itching, stinging and irritation. Causes severe eye irritation. Exposed individuals may experience eye tearing, redness and discomfort. May cause irritation to the mucous

membranes and upper respiratory tract.

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 UpSweep 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.

Conditions for Safe Storage, Including any Incompatibilities

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

 $\label{thm:compatible} \mbox{Keep away from incompatible materials, open flames, and high temperatures. Keep/store}$

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 ³ respirable	-	-
21645-51-2	fraction		
Titanium Dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust	IDLH: 5000 mg/m ³
13463-67-7	_	(vacated) TWA: 10 mg/m ³ total	_
		dust	

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.

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

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 White paste Odor Mild

Color White **Odor Threshold** Not available

Property Values Remarks • Method

Ha

Not applicable **Melting Point/Freezing Point** Not available

> 149 °C / 300.2 °F **Boiling Point/Boiling Range**

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

Evaporation Rate Not available Flammability (Solid, Gas) Not determined **Upper Flammability Limits** Not available **Lower Flammability Limit** Not available **Vapor Pressure** Negligible Vapor Density Not available

Specific Gravity 1.68

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

VOC Content (%) 0.47%; 7.9 g/l

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 cause discomfort if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Hydroxide 21645-51-2	> 5000 mg/kg (Rat)	-	-
Bisphenol A - Epichlorohydrin polymer 25068-38-6	= 11400 mg/kg (Rat)	-	-
Titanium Dioxide 13463-67-7	> 10000 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

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

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

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Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium Dioxide		Group 2B		X
13463-67-7				

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

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.

14. TRANSPORT INFORMATION

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

exemptions and special circumstances.

DOT Not regulated

IATA

UN/ID No UN3082

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s. (Epoxy Resin)

Hazard Class 9 **Packing Group** Ш

IMDG

UN/ID No UN3082

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s. (Epoxy Resin)

Hazard Class 9 **Packing Group** Ш

FAN-001 - EINIA EPOXY Adilesive Part P

15. REGULATORY INFORMATION

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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

SARA 313

Not determined

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Titanium Dioxide - 13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Titanium Dioxide	X	X	X
13463-67-7			

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

 Issue Date
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 Revision Note
 Periodic Review

Disclaimer

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