



MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT ELASTO-POXY PRIMER (VOC) B-COMPONENT MSDS DATE: 3/13/2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ELASTO-POXY PRIMER (VOC) B-COMPONENT
PRODUCT CODES: EPP-VOC-B

MANUFACTURER: ER SYSTEMS (AN ITW COMPANY)
ADDRESS: 12271 MONARCH STREET, GARDEN GROVE, CA 92841
INFORMATION PHONE: 714-898-0025
FAX NUMBER: 714-898-5687

EMERGENCY Contact during transport:
INFOTRAC 1-800-535-5053
CUSTOMER ID: 74919

PRODUCT USE: TWO COMPONENT SOLVENT BASED EPOXY PRIMER FOR PRIMING CONCRETE SUBSTRATE
PREPARED BY: ER SYSTEMS

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO</u>	<u>Wt%</u>
Polyamide Resin	68082-29-1	< 30 %
Alkyl Phenol Polyamine	N.A.	< 55%
Xylene	1330-20-7	< 2%
P-Chlorobenzotrifluoride	98-56-6	< 15%

SECTION 2 NOTES: All ingredient are TSCA listed. Xylene contains ethylbenzene (cas# 100-41-4) less than 0.35% by weight in the formulated product).

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Caution! Combustible Liquid and vapor. May form explosive mixtures with air. Harmful in contact with skin. Inhalation of vapor may cause headaches, dizziness, drowsiness and nausea. May cause respiratory tract, eye and skin irritation. May cause allergic skin reaction.

ROUTES OF ENTRY: Skin, Inhalation, eye, ingestion

Potential Acute Health Effects

Eyes: May cause irritation to eyes

Skin: May cause skin irritation. May cause skin sensitization on skin contact.

Ingestion: Not expected to be a relevant route of exposure. However product may be moderately harmful if swallowed. Solvent in the product may cause damage to the lining of the gastrointestinal tract.

Inhalation: Product may cause irritation to the nose, throat, and respiratory tract due to presence of solvent. May cause central nervous system depression.

Potential Chronic Health Effects

Chronic Effect: The product contains small percent of xylene as well as exempt solvent (PCBTF), material that may cause target organ damage based on studies on animals. The product contains materials that may cause target organs : kidney, liver, central nervous system.

Over-Exposure signs/symptoms

Eyes: pain or irritation, watering, redness

Skin: irritation, redness

Ingestion: nausea or vomiting, dizziness/vertigo, drowsiness/fatigue, headache, unconsciousness

Inhalation: respiratory tract irritation, coughing, nausea or vomiting, dizziness/vertigo, drowsiness/fatigue, headache, unconsciousness

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:



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Pre-existing skin disorders and disorders involving any other target organs mentioned in the MSDS as being at risk may be aggravated by over-exposure to this product.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids for proper irrigation of eyes. Check for and remove any contact lenses. Get medical attention promptly.

SKIN: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly before reuse. Dispose contaminated gloves. Clean shoes thoroughly before reuse. Consult physician if irritation persists.

INHALATION: Get medical attention. Move person to fresh air. If breathing is difficult, provide oxygen. Provide artificial respiration if not breathing. If unconscious, get medical help immediately. Maintain an open airway. Loosening tight clothing such as collar, tie, belt or waistband may help.

INGESTION: Get medical attention. Wash out mouth with water. Remove dentures, if any. Keep person warm and at rest and move to fresh air if possible. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: no data
(% BY VOLUME) LOWER: no data

FLASH POINT: 110F METHOD USED: Pensky Marten Closed Cup Tester

AUTOIGNITION TEMPERATURE: no data

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1
PROTECTION: respirator, gloves, chemical safety goggles/glasses, coverall/apron

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, water spray (fog) or foam.

SPECIAL FIRE FIGHTING PROCEDURES: . Clear fire area of unprotected personnel. Do not enter confined, fire space without full bunker gear (helmet with face shield, coats, gloves, rubber boots. Wear NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include oxides of carbon and nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: In case of container leak, place in a large container or replace the container. In case of large spill, immediately dike the area, turn off ignition sources, and collect the spill in waste container. Use of inert absorbent may be useful to absorb the product. Do not smoke. Do not weld around the product during usage or while stored. Do not allow spill to enter drains and sewer system.

SECTION 7: HANDLING AND STORAGE



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HANDLING AND STORAGE: Wear protective clothing and equipment. Store material in a dry cool area.. Use proper tools to open the containers. Grounding of metal containers is always a good practice. Do not smoke while and around the product during usage and application. Avoid welding.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION : Provide local and general ventilation to avoid vapor concentration above TLV limits. Use of explosion proof ventilation may require in some applications such as closed confined area.

RESPIRATORY PROTECTION: Wear properly fitted organic vapor cartridge respirator or air supplied respirator. Some application in closed confined area may require air supplied respirator unit.

EYE PROTECTION: Safety eyewear complying with approved standard should be used to avoid exposure to liquid splashes, mists, gases or dusts.

SKIN PROTECTION: Use of coveralls and aprons should help avoid skin contact. Wear chemical resistant impervious gloves to avoid hand contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: A monitoring equipment may require to monitor the exposure limits, personal, workplace atmosphere etc. and to determine the necessity to use respiratory protective equipment as well as to determine the effectiveness of the ventilation or other control measures.

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling the product, before eating, smoking and using the lavatory as well as at the end of the working period. Do not smoke around the applied area. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

EXPOSURE GUIDELINES:

<u>Ingredient</u>	<u>Cas#</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL STEL</u>
Xylene	1330-20-7	100 ppm	150 ppm
P-Chlorobenzotrifluoride	98-56-6	not established	not established
Ethylbenzene	100-41-4	100 ppm	125 ppm
<u>Ingredient</u>	<u>Cas #</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH TLV STEL</u>
Xylene	1330-20-7	100 ppm	150 ppm
P-Chlorobenzotrifluoride	98-56-6	not established	not established
Ethylbenzene	100-41-4	100 ppm	125 ppm

SECTION 8 NOTES: P-Chlorobenzotrifluoride has CEL exposure limit of 25 ppm 8 hr TWA.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: amber color, low viscosity liquid mixture

ODOR: mild to moderate amine odor

PHYSICAL STATE: liquid mixture

BOILING POINT: not available

MELTING POINT: not applicable

FREEZING POINT: no data

VAPOR PRESSURE (mmHg): no data

VAPOR DENSITY (AIR = 1): greater than air

Weight per Gallon: 8.46 pound per gallon

EVAPORATION RATE: greater than air

BASIS (air =1)

SOLUBILITY IN WATER: slight

PERCENT VOLATILE (by volume): 11 %

VOLATILE ORGANIC COMPOUNDS (VOC): 20 gram per liter (minus exempt solvent)

VISCOSITY:



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SECTION 10: STABILITY AND REACTIVITY

STABILITY: stable

CONDITIONS TO AVOID (STABILITY): avoid exposure to high temperature. Avoid heat, sparks, flame.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with strong oxidizing agents, strong acids (sulfuric acid, acetic acid, citric acid etc), reactive organometallic compounds, peroxides, sodium hypochlorite

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon dioxide, carbon monoxide, oxides of nitrogen, nitric acid

HAZARDOUS POLYMERIZATION: not expected. Avoid high temperature storage. High temperature may cause pressure buildup in the container that could result to rupture of the container.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

<u>Ingredient</u>	<u>Acute Oral LD50</u>	<u>Acute Dermal LD50</u>	<u>Acute Inhalation LC50</u>
Xylene	4300 mg/kg (rat)	>1700 mg/kg (rabbit)	5000 ppm/4h (rat)
Ethylbenzene	3500 mg/kg (rat)	-	55mg/l/2h (rat), 35.5 mg/l/2h (mouse)
P-Chlorobenzotrifluoride	> 6.8 g/kg (rat)	> 2.7 g/kg (rabbit)	4479 ppm (rat)
Polyamide Resin (Cas #68082-29-1)	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	no data

Other Information:

Carcinogenicity Classification:

<u>Ingredient</u>	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Xylene	not classified	not classified	not listed	not regulated
Ethylbenzene	yes (animals)	yes, group 2B	not listed	not regulated
P-Chlorobenzotrifluoride	Unknown (humans)	not classified	not listed	not regulated

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Environmental Effects: no known effects or critical hazards.

Aquatic Ecotoxicity (listed below are that off ingredients used for the product)

Xylene – Fresh water, acute LC50 13.4 mg/l/96hr (fathead minnow)
 Fresh water, acute LC50 780 mg/l/96 hr (species 262)
 Fresh Water, acute LC50 15.7 mg/l/96hr (Bluegill)
 Fresh Water, acute LC50 34.73 mg/l/96hr (Guppy)

Ethylbenzene - Fresh water, acute LC50 9.09 mg/l/96hr (fathead minnow)
 Fresh water, acute LC50 4.2 mg/l/96hr (rainbow trout)
 Fresh Water, acute LC50 32 mg/l/96hr (Bluegill)
 Fresh Water, acute LC50 9.6 mg/l/96hr (Guppy)
 Salt Water – Acute LC50 280 mg/l/96hr (sheephead minnow)

P-Chlorobenzotrifluoride

Fish:

LC50 (96hr) (rainbow trout)	13.5mg/l
LC50 (96hr) (bluegill sunfish)	12.0 mg/l
MATC (31days) (fathead minnow)	>0.54 < 1.4 mg/l
BCF (48hr) (bluegill sunfish)	121.8 & 202.0

Invertebrates:



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LC50 (48hrs) (water flea) 12.4 mg/l
MATC (21 days) (water flea) >0.03 < 0.05 mg/l
Plants:
IC50 (72hrs) (green & blue-green carrier) 500 mg/l

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: The generation of waste should be avoided or minimized whenever possible. Dispose of the product via a licensed waste disposal contractor. Avoid any material to enter soil, waterways, drains and sewer.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION : PROPER SHIPPING NAME: not regulated

WATER TRANSPORTATION /AIR TRANSPORTATION

PROPER SHIPPING NAME: Resin Solution (Contains Xylene + P-Chlorobenzotrifluoride)

Class: 3

ID: UN 1866

Packaging Group: III

Label: Flammable Liquid Mixture

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients used for the product are in TSCA Inventory.

Sara 311/312 Classification: Immediate (acute) health hazard, delayed health hazard, fire hazard

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Xylene [cas # 1330-20-7] (<1.5%)

Ethylbenzene [100-41-4] (<0.35%)

SARA 302 Extremely Hazardous Substances : None known

STATE REGULATIONS: Proposition 65: This product contain a chemical known to the State of California to cause cancer and birth defects or other reproductive harm: Ethylbenzene (cas#100-41-4)

INTERNATIONAL REGULATIONS:

WHMIS (Canada): Class B, Division 3

Canadian Lists: Canadian NPRI: The following ingredients are listed: Xylene, Ethylbenzene

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: 3/13/2012

DISCLAIMER:

A MSDS such as this cannot be expected to cover all possible individual situations. The end user of this product has the responsibility to provide a safe workplace. All aspects of an individual operation should be examined to determine if, or where, precautions – in addition to those described herein – are required. Any health and safety information contained herein should be passed on to your customers and/or employees.

The opinions expressed herein are those of qualified experts within Pacific Polymers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and the use of this product are not within the control of Pacific Polymers final determination of suitability of this product is the sole responsibility of the user. It is the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.