

SAFETY DATA SHEET

Poly-Fiber Epoxy Primer Catalyst

1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

PRODUCT NAME: Poly-Fiber Epoxy Primer Catalyst
 PRODUCT NUMBER: EP-430 (Part B)
 SUPPLIER: Poly-Fiber, Inc.
 P.O. Box 3129, Riverside, CA 92519, USA
 4343 Fort Drive, Riverside, CA 92509, USA
 (951) 684-4280
 (951) 809-7144
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 EMERGENCY TELEPHONE: (800) 424-9300 (Chemtrec- US)
 (703) 527-3887 (International – Call Collect)

2 - HAZARDS IDENTIFICATION

Highly flammable. Irritating to eyes and skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed. Vapors may cause drowsiness and dizziness.

CLASSIFICATION (1999/45) XI, XN, F, R11, R36, R37, R38, Repr. Cat 3, R67

3 – COMPOSITION /INFORMATION ON INGREDIENTS

Name	EC No.	CAS No.	Content %	Classification (67/548/EEC)
Methyl Ethyl Ketone	201-159-0	78-93-3	1-9%	XI, F, R11, R36, R66, R67
1-Propanol	200-746-9	71-23-8	5-35%	XI, F, R11, R41, R67, S16, S24, S26, S39, S7
1-Butanol	200-751-6	71-36-3	10-40%	XN, T, F, R10, R22, R37/38, R41, R67, R39/23/24/25, R23/24/25, R11, S13, S26, S37/39, S46, S7/9, S45, S36/37, S16, S7
Xylene	215-535-7	1330-20-7	4-34%	XN, R10, R21, R36/38, S2, S36/37, S46
Glycol Ether EB	203-905-0	111-76-2	2-32%	XN, R20/21/22, R36/38, S36/37, S46
Bisphenol-A/Diethylenetriamine adduct	Not Established	68610-56-0	15-45%	Not Established
2,4,6-Tri(Dimethylaminoethyl)phenol	202-013-9	90-72-2	1-5%	XI, R22, R36/37, R36/38, R34, S22, S26, S28
Ethylbenzene	202-849-4	100-41-4	0.1-1.0%	XN, F, R11, R20, S16, S24/25, S29

The Full Text for all R-Phrases and S-Phrases is displayed in Section 15

COMPOSITION COMMENTS

The data shown are in accordance with the latest EC Directives

Two Opti-color colorants contain lead pigments: CY Medium Chrome Yellow and MO Molybdate Orange. One colorant, TW Titanium White, contains silica. When any of these three colorants are used: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

4- FIRST AID MEASURES

INHALATION:

Move the victim to a fresh air place immediately. Get medical attention if discomforts persist.

INGESTION:

Rinse mouth with clean water immediately. DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, keep the victim's head low so that vomit from the stomach will not enter the lungs.

SKIN CONTACT:

Remove contaminated clothing and flush the affected skin areas with clean water for at least 15 minutes. Get medical attention if discomforts persist.

EYES CONTACT: Make sure all contact lenses are removed before flushing the eyes with eye lids open with clean water for at least 15 minutes.

Get medical attention promptly if symptoms occur after washing

5- FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA:

Foam, CO₂, Dry Chemical, Water Fog

SPECIAL FIREFIGHTING PROCEDURES:

Do not use a direct stream of water. Product may float and can be reignited on the surface of the water. Do not enter a confined area without full bunker gear including a positive-pressure NIOSH-approved self-contained breathing apparatus. Decomposition products may form toxic materials.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Never use welding or cutting torch on or near drum (even empty) because residue or product can ignite explosively. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by pilot lights, flames and other ignition sources at locations distant from the material handling point. Flammable material

6-ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear protective clothing as described in Section 8.

ENVIRONMENTAL PRECAUTIONS:

Spillages or uncontrolled discharges into watercourses must immediately be alerted to Environmental Agency or other appropriate regulatory authority.

SPILL CLEANUP METHODS:

Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, open flames, and smoking. Ventilate. Absorb in vermiculite, dry sand, or earth and place into containers for disposal.

7-HANDLING AND STORAGE

USAGE PRECAUTIONS:

Keep away from heat, sparks and open flames. Avoid spilling, skin and eyes contact. Use with adequate ventilation and avoid excessive exposure to solvent vapors. Use approved respirator if air contamination exceeds the accepted level

STORAGE PRECAUTIONS:

FLAMMABLE/Combustible. Keep away from oxidizers, open flames and other ignition sources. Keep unused contents in original container and tightly closed lids. Store in a cool, dry and well-ventilated place and at an ambient Temperature not to exceeding above 120° F.

STORAGE CLASS:

FLAMMABLE liquid storage.

8-EXPOSURE CONTROL/PERSONAL PROTECTION

Name	Workplace Exposure Limits	Remarks
Methyl Ethyl Ketone	ACGIH: 200ppm TWA; 300ppm STEL NIOSH: 200ppm TWA; 590 mg/m ³ TWA; 3000ppm IDLH OSHA –Final PELs: 200ppm TWA; 590 mg/m ³ TWA	Consult local authorities for acceptable exposure limits.
1-Propanol	ACGIH: 100 ppm TWA NIOSH: 200 ppm TWA, 500 mg/m ³ TWA, 800 ppm IDLH OSHA – Final PELs: 200 ppm TWA, 500 mg/m ³ TWA	Same As Above
1-Butanol	ACGIH: (skin) - potential for cutaneous absorption; (C 50 ppm) NIOSH: 1400 ppm IDLH (10 percent lower explosive limit) OSHA – Final PELs: 100 ppm TWA; 300 mg/m ³ TWA	Same As Above
Xylene	ACGIH: 100 ppm TWA, 150 ppm STEL NIOSH: Not listed OSHA – Final PELs: 100 ppm TWA, 435	Same As Above

	mg/m3 TWA	
Glycol Ether EB	ACGIH: 20 ppm TWA NIOSH: 5 ppm TWA, 24 mg/m3 TWA OSHA – Final PELs: 50 ppm TWA, 240 mg/m3 TWA Occupational Exposure Limits Table Z-1	Same As Above
Bisphenol-A/Diethylenetriamine adduct	ACGIH: Not Established NIOSH: Not Established OSHA-Final PELs: Not Established	Same As Above
2,4,6-Tri(Dimethylaminoethyl)phenol	ACGIH: 5 mg/m3 TWA NIOSH: Not Established OSHA-Final PELs: 10 mg/m3 TWA	Same As Above
Ethylbenzene	ACGIH: 100 ppm TWA; 125 ppm STEL NIOSH: 100 ppm TWA; 435 mg/m3 TWA 800 ppm IDLH (10% LEL) OSHA-Final PELs: 100 ppm TWA; 435 mg/m3 TWA	Same As Above

WARNING:

Use fresh-air supplied spray mask is required.

NOTICE:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**PROTECTIVE EQUIPMENTS:****PROCESS CONDITIONS:****ENGINEERING MEASURES:****RESPIRATORY EQUIPMENT:****HANDPROTECTION:****EYE PROTECTION:****OTHER PROTECTION:****HYGIENE MEASURES:**

Provide eyewash station.

Provide adequate ventilation. Fully equipped spray booth is recommended to ensure the workers legal exposure limits are not exceeded.

Wear respirator with appropriate cartridge for organic solvents and chemicals.

Wear approved gloves such as Neoprene, Nitrile or Rubber types.

Wear splash-proof goggles.

Wear appropriate clothing to prevent any possible skin contact.

DO NOT SMOKE IN THE WORK AREA. Wash at the end of each work shift and before eating, drinking or smoking. Promptly remove contaminated clothing.

9- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear Liquid
COLOR:	Amber
ODOR:	Amine Odor
BOILING POINT:	175.4- 315 ^o F
RELATIVE DENSITY:	0.89 g/mL
VAPOR DENSITY:	Heavier than air
FLASH POINT:	20 ^o F (-7 ^o C) (Closed Cup)
FLAMMABILITY LIMITS:	N/D (Lower %)
SOLUBILITY VALUE (g/100g H ₂ O @ 20°C):	Insoluble
VOLATILE ORGANIC COMPOUND (VOC):	478.17 g/L

10- STABILITY AND REACTIVITY**STABILITY:**

Stable

CONDITIONS TO AVOID:

Heat and fires. Ignition sources

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong alkalis or strong oxidizers. This material may dissolve some plastics, rubber compounds or coatings.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Hydrogen chloride and very small amounts of phosgene and chlorine.

HAZARDOUS POLYMERIZATION:

N/A

11-TOXICOLOGICAL INFORMATION

Methyl Ethyl Ketone (CAS# 78-93-3): LD50/rabbit/skin/draize test = 500mg/24H Moderate; LC50/mouse/inhalation = 32mg/m³/4H; Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.**1-Propanol (CAS#71-23-8):** LD50/rat/oral= 1.87-6.5g/kg; LD50/rabbit/dermal=4.0g/kg; LC50/rat/inhalation/1 hr >20000 ppm; Skin Irritation/rabbit=slight; Eye Irritation/rabbit=moderate.**1-Butanol (CAS#71-36-3) : Acute toxicity data**

Oral LD-50:(rat)	2,500 mg/kg
Oral LD-50:(rabbit)	3,400 mg/kg
Inhalation LC-50: (rat)	4 h: > 8000 ppm
Dermal LD-50: (rabbit)	5,300 mg/kg
Skin Irritation (rabbit)	slight
Eye Irritation (rabbit)	strong

Xylene (Mixed Isomers) (CAS#1330-20-7): LD50/LC50: Draize test, rabbit, eye: 87 mg Mild; Draize test, rabbit, eye: 5 mg/24H Severe; Draize test, rabbit, skin: 100% Moderate; Draize test, rabbit, skin: 500 mg/24H Moderate; Inhalation, rat: LC50 = 5000 ppm/4H; Oral, mouse: LD50 = 2119 mg/kg; Oral, rat: LD50 = 4300 mg/kg; Skin, rabbit: LD50 = >1700 mg/kg; Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: 175 workers were exposed to 21 ppm of xylene for 7 years. Subjective symptoms such as anxiety, forgetfulness, inability to concentrate and dizziness were reported. Xylenes accounted for >70% of the total exposure. Liver & kidney effects were not reported. Teratogenicity: No increased incidence of birth defects was reported in a study of lab workers exposed to xylene during early pregnancy. Exposure to other solvents and chemicals also occurred. An increased incidence of spontaneous abortions was reported. Animal information suggests that xylene is not teratogenic or embryotoxic at exposure levels that are not harmful to the mother. Reproductive Effects: An increase in menstrual disorders has been reported in women exposed to organic solvents such as benzene, toluene, and xylenes. It is not possible to attribute these effects to xylenes in particular. Mutagenicity: Xylene does not appear to be a mutagen. Neurotoxicity: Xylene may be ototoxic (damages hearing or enhances sensitivity to noise) in chronic occupational exposures, probably from a neurotoxic mechanism.

Glycol Ether EB (CAS#111-76-2): Carcinogenicity: Not listed by NTP, IARC or OSHA.

Bisphenol-A/Diethylenetriamine adduct (CAS#68610-56-0): Acute Oral Effects (LD50): Component(s) are slightly toxic, 500 - 5000 mg/kg (rat). Acute Dermal Toxicity (LD50): Component(s) are toxic, 200 - 1000 mg/kg (rabbit). Sensitization: May cause allergic skin reaction and respiratory sensitivity in some people. Skin Irritation: Severe skin irritant. Eye Irritation: Corrosive. Causes burns.

2,4,6-Tri(Dimethylaminoethyl) Phenol (CAS#90-72-2) : Acute Health Hazard: LD50/rat/ingestion : 1,673 mg/kg. Inhalation: No data is available LD50/rabbit/skin : 1,242 mg/kg. Eye irritation/corrosion: Severe eye irritation. Corrosive to the eyes of a rabbit. Acute dermal irritation/corrosion: Severe skin irritation., Corrosive to the skin of a rabbit. Sensitization: Dermal sensitization to this product or component has been seen in some humans. The results of a test on guinea pigs showed this substance to be a weak skin sensitizer. Chronic Health Hazard No evidence of mutagenic activity was observed in a bacterial mutation assay. Chromosome Aberration Assay: Negative (Activated and Nonactivated)

Ethyl Benzene (CAS#100-41-4). Acute Dermal LD50 Rabbit: 17800 mg/kg, Acute Oral LD50 Rat: 3500 mg/kg. Carcinogenicity: ACGIH- A3 Confirmed animal carcinogen with unknown relevance to humans. IARC Monographs: 2B possibly carcinogenic to humans. Skin corrosion/irritation: Causes skin irritation. Epidemiology: No epidemiological data is available for this product. Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Neurological effects: High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches. Central and/or peripheral nervous system damage. Reproductive effects Contains no ingredient listed as toxic to reproduction. Teratogenicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

12-ECOLOGICAL INFORMATION

Methyl Ethyl Ketone (CAS#78-93-3): Ecotoxicity : Fish/Fathead Minnow/LC50 = 3220mg/l; Environmental : Substance evaporates in water with T1/2=3D (rivers) to 12D (lakes); Physical : Substance photodegrades in air with T1/2=2.3 days.

1-Propanol (CAS#71-23-8): Oxygen Demand Data: BOD-5=1.43 – 1.6 g/g, BOD-20 <2.0g/g; COD (Chemical Oxygen Demand)=1.4 g/g; ThBOD: 1.8 g/g Acute Aquatic Effects Data: 96 h LC-50 (fathead minnow): > 1000 ul/L; 24 h LC-50 (goldfish): > 5000 mg/l ; 48 h LC-50 (golden orfe): 4320 - 4560 mg/l; 96 h LC-50 (sideswimmer): > 1000 ul/L NOEC: 1000 ul/L; 96 h LC-50 (daphnid): > 1000 ul/L NOEC: 1000 ul/L; 96 h LC-50 (snail): > 1000 ul/L NOEC: 1000 ul/L

1-Butanol (CAS#71-36-3) : Acute toxicity data: Oxygen Demand Data: BOD-5: 1,710 mg/g BOD-20: 1,890 mg/g COD (Chemical Oxygen Demand): 2,460 mg/g. Acute Aquatic Effects Data: 24 h LC-50 (goldfish): 1000 - 1400 mg/l 48 h LC-50 (golden orfe): 1770 mg/l 24 h LC-50 (daphnid): 1855 mg/l

Xylene (Mixed Isomers) (CAS# 1330-20-7): Ecotoxicity: Fish: Rainbow trout: LC50 = 13.5 mg/L; 96 Hr; UnspecifiedFish: Goldfish: LD50 = 13 mg/L; 24 Hr; UnspecifiedFish: Fathead Minnow: LC50 = 46 mg/L; 1 Hr; Static bioassay Acute and long-term toxicity to fish and invertebrates: LD50 for goldfish is 13 mg/L/24 Hr.Cas#1330-20-7:LC50(96Hr.) rainbow trout = 8.05 mg/L, Static condition;LC50(96Hr.) fathead minnow = 16.1 mg/L, flow-through conditions; LC50(96Hr.) bluegill = 16.1 mg/L, flow-through;EC50 (48 Hr.) water flea = 3.82 mg/L, flow-through conditions;EC50(24 Hr.) photobacterium phosphoreum = 0.0084 mg/L, Microtox test.

Environmental: In air, xylenes degrade by reacting with photochemically produced hydroxyl radicals. In soil it will volatilize and leach into groundwater. Little bioconcentration is expected.

Physical: ATMOSPHERIC FATE: According to a model of gas/particle partitioning of semivolatile organic compounds in the atmosphere, xylene, which has an experimental vapor pressure of 7.99 mm Hg at 25 deg C, will exist solely as a vapor in the ambient atmosphere. Vapor-phase xylene is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the atmospheric lifetime of xylene is about 14-26 hours. Ambient levels of xylene are detected in the atmosphere due to large emissions of this compound.

Glycol Ether EB (CAS#111-76-2): Ecotoxicity: Not expected to be toxic to aquatic life. Environmental: substance evaporates and biodegrades when released to soil, water and air

Bisphenol-A/Diethylenetriamine adduct (CAS#68610-56-0): Not available.

2,4,6-Tri(Dimethylaminoethyl) Phenol (CAS#90-72-2) : Ecotoxicity effects: Aquatic toxicity: LC50 (24 h) : 222 mg/l
Species : Rainbow trout (Oncorhynchus mykiss) LC100 (96 h) : 240 mg/l Species : Rainbow trout (Oncorhynchus mykiss).
LC0 (96 h) : 180 mg/l Species : Rainbow trout (Oncorhynchus mykiss). LC50 (24 h) : 249 mg/l Species : Carp (Cyprinus carpio).
LC50 (96 h) : 175 mg/l Species : Carp (Cyprinus carpio). EC50 (96 h) : 718 mg/l Species : Grass shrimp (Palaemonetes).
EC100 (96 h) : 1,000 mg/l Species : Mud crab (Neopanope). ECO (96 h) : 750 mg/l Species : Mud crab (Neopanope).
EC50 (72 h) : 84 mg/l Species : Scenedesmus subspicatus. Persistence and degradability Biodegradability : According to the results of tests of biodegradability this product is not readily biodegradable. Mobility : No data available. Bioaccumulation : No data is available

Ethyl Benzene (CAS#100-41-4): EC50 Water flea (Daphnia magna): 1.37 mg/l 48.00 hours. LC50 Rainbow trout, Donaldson trout (Oncorhynchus mykiss): 4.2 mg/l 96.00 hours. Ecotoxicity: Toxic to aquatic life. Environmental effects: Bioaccumulation is unlikely to be significant because of the low water solubility of this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

13 – DISPOSAL CONSIDERATIONS

Hazardous wastes should be sent to a RCRA approved incinerator or disposed of in a RCRA approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

14 – TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: PAINT
PRIMARY HAZARD CLASS/DIVISION: 3
UN/UA NUMBER: UN1263
PACKING GROUP: II

IMO PROPER SHIPPING NAME: PAINT
IMO UN CLASS: 3
IMO UN NUMBER: UN1263
IMO PACKING GROUP: II
IMO LABEL: FLAMMABLE LIQUID
IMO VESSELS STOWAGE: B

Air shipping this product is not advised and if done must be handled by a certified carrier according to IATA rules.

**GHS LABEL:**

DANGER - HIGHLY FLAMMABLE LIQUID AND VAPOR. VAPOR HARMFUL. CAUSES SERIOUS EYE DAMAGE. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL OR FATAL IF SWALLOWED AND ENTERS AIRWAYS.

Refer to MSDS for additional information on safe handling / use. - Keep out of reach of children. For industrial use only.

Contains: Methyl Ethyl Ketone, 1-Butanol, Glycol Ether EB, 1-Propanol, Bisphenol A/Diethylenetriamine Adduct, Tris-2,4,6-(Dimethylaminomethyl)Phenol, Xylene and Ethylbenzene. This product contains one or more chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

Hazards: H225: Highly flammable liquid and vapor. H318: Causes serious eye damage. H315: Causes skin irritation. H336: May cause drowsiness or dizziness. H335: May cause respiratory irritation. H373: May cause damage to organs through prolonged or repeated exposure: Inhalation - auditory dysfunction. H317: May cause an allergic skin reaction. H304: May be fatal if swallowed and enters airways.

Precautionary Statement(s): P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P280: Wear protective gloves/protective clothing/eye protection/face protection. P260: Do not breathe mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area. P264: Wash (hands and exposed skin) thoroughly after handling.

First Aid: Inhalation - Move person to fresh air. If symptoms occur obtain medical attention. Skin Contact - Wash affected skin with soap and water. If symptoms occur obtain medical attention. Eye Contact - If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Get immediate medical attention. Ingestion - Do not induce vomiting. Drink one glass of water. If symptoms occur obtain medical attention.

15-REGULATORY INFORMATION

Hazards:

H225: Highly flammable liquid and vapor. H318: Causes serious eye damage. H315: Causes skin irritation. H336: May cause drowsiness or dizziness. H335: May cause respiratory irritation. H373: May cause damage to organs through prolonged or repeated exposure: Inhalation - auditory dysfunction. H317: May cause an allergic skin reaction. H304: May be fatal if swallowed and enters airways.

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CODES:

XI and XN



F



T

XI=Irritant
XN=Harmful
F=Highly Flammable
T=Toxic

R-Phrases:

R10: Flammable
R11: Highly Flammable
R20: Harmful by inhalation
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed
R21: Harmful in contact with skin
R22: Harmful if swallowed
R23/24/25: Toxic by inhalation, in contact with skin and if swallowed
R36/37: Irritating to eyes and respiratory system
R36/38: Irritating to eyes and skin
R37/38: Irritating to respiratory system and skin

R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed

R41: Risk of serious damage to eyes

R66: Repeated exposure may cause skin dryness or cracking

R67: Vapors may cause drowsiness and dizziness

S-Phrases:

S2: Keep out of the reach of children

S7: Keep container tightly closed

S7/9: Keep container tightly closed and in a well-ventilated place

S13: Keep away from food, drink and animal feeding stuffs

S16: Keep away from sources of ignition - No smoking

S24: Avoid contact with skin

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28: After contact with skin, wash immediately with plenty of water and clean with soap and water.

S29: Do not empty into drains

S36/37: Wear suitable protective clothing and gloves

S37/39: Wear suitable gloves and eye/face protection

S39: Wear eye/face protection

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

S46: If swallowed, seek medical advice immediately and show this container or label

16- DISCLAIMER

Above information is based on data supplied to us and is believed to be correct. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. It is the user's obligation to determine the safe use of it.