

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU)
No. 2015/830 – United Kingdom (UK) and Australian Requirements

SAFETY DATA SHEET

Epoxy Varnish (Part A)

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

PRODUCT NAME:	Epoxy Varnish (Part A)
PRODUCT NUMBER:	EV-400
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 (760) 782-1947
EMERGENCY TELEPHONE:	(800) 424-9300 (Chemtrec- US) (703) 527-3887 (International – Call Collect)

2 - HAZARDS IDENTIFICATION

GHS Hazard Category

Flammable liquid- Category 2
Eye Irritation - Category 2A
Skin Irritation- Category 2
Respiratory Irritation- Category 3
Specific target organ toxicity (single exposure) – Category 3, Central Nervous System H336

Label Elements

Pictograms

Signal Word

DANGER

Hazard Statements

Highly flammable. Irritating to eyes and skin
May cause drowsiness or dizziness
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

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Store in a well-ventilated place. Keep container tightly closed. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area. Vapors may cause drowsiness and dizziness.

Response

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 vomits 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.

Storage

Store in a well-ventilated Place. Keep container tightly closed. Keep cool. Store in a locked cabinet, cage or room.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

CLASSIFICATION (1999/45) XI, XN, F, R11, R36, R37, 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	1-50%	XI, F, R11, R36, R66, R67
Methyl Isobutyl Ketone	203-550-1	108-10-1	4-60%	XN, F, R11, R36/37, R20, R66, S16, S29, S9
Toluene	203-625-9	108-88-3	2-59%	XN, F, R11, R20, S16, S25, S29, S33
Isopropyl Alcohol	200-661-7	67-63-0	3-56%	R11, R36/37/38, S7, S16
Polymer of Epichlorohydrin and Bisphenol-A	Not Established	25036-25-3	12-50%	XI, R43, R36/37/38, S36/37, S36, S26
n- Butyl Alcohol	200-751-6	71-36-3	3-56%	XN, R10, R22, R37/38, R41, R67, S7/9, S13, S26, S37/39, S46

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

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 vomits 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.
Methyl Isobutyl Ketone	ACGIH: 50 ppm TWA; 75 ppm STEL NIOSH: 50 ppm TWA; 205 mg/m ³ TWA 500 ppm IDLH OSHA-Final PELs: 100 ppm TWA; 410 mg/m ³ TWA	Same As Above
Toluene	ACGIH: 20ppm TWA NIOSH: 100 ppm TWA; 375 mg/m ³ TWA 500 ppm IDLH OSHA-Final PELs: 200 ppm TWA; 300 ppm Ceiling	Same As Above
Isopropyl Alcohol	ACGIH: 200 ppm TWA; 400 ppm STEL NIOSH: 400 ppm TWA; 980 mg/m ³ TWA 2000 ppm IDLH (10% LEL) OSHA-Final PELs: 400 ppm TWA; 980 mg/m ³ TWA	Same As Above
Polymer of Epichlorohydrin and Bisphenol-A	ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen NIOSH: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP OSHA-Final PELs: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen	Same As Above
n-Butyl Alcohol	ACGIH: 20 ppm TWA NIOSH: 1400 ppm IDLH OSHA-Final PELs: 100 ppm TWA; 300 mg/m ³ TWA	Same As Above

WARNING:

Use a cartridge respirator with organic vapor cartridges.

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:

Provide eyewash station.

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

RESPIRATORY EQUIPMENT:
 HANDPROTECTION:
 EYE PROTECTION:
 OTHER PROTECTION:
 HYGIENE MEASURES:

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:	Liquid
COLOR:	Clear to slight yellowish cast
ODOR:	Aromatic solvents
BOILING POINT:	176°-284° F
RELATIVE DENSITY:	0.96 g/mL
VAPOR DENSITY:	Heavier than air
FLASH POINT:	20° F (-7° C) (Closed Cup)
FLAMMABILITY LIMITS:	N/D (Lower %)
SOLUBILITY VALUE (g/100g H ₂ O @ 20°C):	Insoluble
VOLATILE ORGANIC COMPOUND (VOC):	529.70 g/L

10- STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID:

Heat and fires. Ignition sources

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong alkalines 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.

Methyl Isobutyl Ketone (CAS#108-10-1):LD50/rat/oral = 2080mg/kg; Carcinogenicity: Not listed by NTP or IARC.

Toluene (CAS# 108-88-3): ACGIH: A4-Not Classifiable as a Human Carcinogen; IARC: Group 3 carcinogen; No other toxicological information available

Isopropyl Alcohol (CAS#67-63-0): LD50/LC50: Draize test, rabbit, eye: 100 mg Severe; Draize test, rabbit, eye: 10 mg Moderate; Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 500 mg Mild; Inhalation, mouse: LC50 = 53000 mg/m³; Inhalation, rat: LC50 = 16000 ppm/8H; Inhalation, rat: LC50 = 72600 mg/m³; Oral, mouse: LD50 = 3600 mg/kg; Oral, mouse: LD50 = 3600 mg/kg; Oral, rabbit: LD50 = 6410 mg/kg; Oral, rat: LD50 = 5045 mg/kg; Oral, rat: LD50 = 5000 mg/kg; Skin, rabbit: LD50 = 12800. Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: No information found. Teratogenicity: A rat & rabbit developmental toxicity study showed no teratogenic effects at doses that were clearly maternally toxic. In a separate rat study, no evidence of developmental neurotoxicity was associated with gestational exposures to IPA up to 1200 mg/kg/d. Reproductive Effects: See actual entry in RTECS for complete information. Mutagenicity: See actual entry in RTECS for complete information. Neurotoxicity: In rats exposed to isopropanol by inhalation, acute neurotoxicity was noted at 1 and 6 hours at 5000 ppm, but only minimal effects were seen at 1500 ppm and the animals recovered within 5 hours. No toxicity was noted at 500 ppm.

Poly(Bisphenol A-co-epichlorohydrin), glycidyl end-capped (CAS#25036-25-3) : Acute toxicity : no data available.

Skin corrosion/irritation : no data available. **Serious eye damage/eye irritation :** no data available

Respiratory or skin sensitization : May cause allergic skin reaction. **Germ cell mutagenicity :** no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available. **Specific target organ toxicity - single exposure (Globally Harmonized System):**

no data available. **Specific target organ toxicity - repeated exposure (Globally Harmonized System)** no data available

Aspiration hazard : no data available. **Potential health effects: Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. **Skin:** May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

N-Butanol (CAS#71-36-3) : LD50/rat/oral=2500 mg/kg; LD50/rabbit/oral=3400 mg/kg; LC50/rat/inhalation/4 hrs >8000ppm; LD50/rabbit/dermal=5300 mg/kg; Skin Irritation/rabbit=slight; Eye Irritation=strong.

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.

Methyl Isobutyl Ketone (CAS#108-10-1): Ecotoxicity : Not expected to be toxic to terrestrial life; Environmental : substance evaporates and biodegrades when released to soil, water and air.

Toluene (CAS#108-88-3): Ecotoxicity : No data available; Environmental : From soil, substance evaporates and is microbially biodegraded. In water, substance volatilizes and biodegrades; Physical: Photochemically produced hydroxyl radicals degrade substance.

Isopropanol (CAS#67-63-0): Ecotoxicity: Fish: Fathead Minnow: >1000 ppm; 96h; LC50Daphnia: >1000 ppm; 96h; LC50Fish: Gold orfe: 8970-9280 ppm; 48h; LC50 IPA has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge.

Environmental: No information available. Physical: THOD: 2.40 g oxygen/gCOD: 2.23 g oxygen/gBOD-5: 1.19-1.72 g oxygen/g

Other: No information available.

Poly(Bisphenol A-co-epichlorohydrin), glycidyl end-capped (CAS#25036-25-3) : Toxicity: no data available

Persistence and degradability: No data available Bioaccumulative potential: any data available

Mobility in soil: no data available PBT and vPvB assessment: no data available

Other adverse effects: no data available

N-Butanol (CAS#71-36-3) : 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

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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 – United Kingdom (UK) and Australian Requirements

DOT / ADR / RID Classification:

DOT PROPER SHIPPING NAME: PAINT

PRIMARY HAZARD CLASS/DIVISION: 3

UN/JA NUMBER: UN1263

PACKING GROUP: II

IMDG and ADN Classification:

IMDG PROPER SHIPPING NAME: PAINT

IMDG UN CLASS: 3

IMDG UN NUMBER: 1263

IMDG PACKING GROUP: II

IMDG LABEL: FLAMMABLE LIQUID

IMDG VESSEL 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 IRRITATION. CAUSES SKIN IRRITATION. 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: Toluene, Methyl Ethyl Ketone, Isopropyl Alcohol, Methyl Isobutyl Ketone, Polymer of Epichlorohydrin and Bisphenol-A and n-Butyl Alcohol. 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. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled. H373: May cause damage to organs through prolonged or repeated exposure. H401: Toxic to aquatic life.

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. P240: Ground/bond container and receiving equipment. P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P337+313: If eye irritation persists get medical advice/attention.

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. If symptoms occur obtain 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 vapour. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled. H373: May cause damage to organs through prolonged or repeated exposure. H401: Toxic to aquatic life.

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XI and XN



F

CODES:

XI=Irritant
 XN=Harmful
 F=Highly Flammable

R-Phrases:

R10: Flammable
 R11: Highly Flammable
 R20: Harmful by inhalation
 R22: Harmful if swallowed
 R36: Irritating to eyes
 R36/37: Irritating to eyes and respiratory system
 R37/38: Irritating to respiratory system and skin
 R38: Irritating to skin
 R36/37/38: Irritating to eyes, respiratory system and skin
 R41: Risk of serious damage to the eyes
 R43: May cause sensitization by skin contact
 R66: Repeated exposure may cause skin dryness or cracking
 R67: Vapors may cause drowsiness and dizziness

S-Phrases:

S7: Keep container tightly closed
 S9: Keep container in a well-ventilated place
 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
 S23: Do not breathe gas/fumes/vapor/spray
 S24: Avoid contact with skin
 S25: Avoid contact with eyes
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 S29: Do not empty into drains
 S33: Take precautionary measures against static discharges
 S36: Wear suitable protective clothing
 S36/37: Wear suitable protective clothing and gloves
 S37/39: Wear suitable gloves and eye/face protection
 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.