

# MATERIAL SAFETY DATA SHEET

NPCA 1-82

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor 'Essentially Similar' to Form OSHA-20)

## Section I

Prepared By: Poly-Fiber, Inc.  
(Mailing) P.O. Box 3129  
Riverside, CA 92519-3129  
STREET ADDRESS 4320 Rubidoux Blvd.

DATE OF PREP 2-6-96

CITY, STATE, AND ZIP CODE Riverside, CA 92519

EMERGENCY TELEPHONE NO. CHEMTREC (800) 424-9300  
INFORMATION TELEPHONE NO. (909) 684-4280 (909) 360-6792  
CAS# N/A, Mixture (909) 882-7230

PRODUCT CLASS 3  
VOC 770 Grams Per Liter

TRADE NAME Epoxy Reducer E-500  
Photo Chemically Reactive Solvent

## Section II—HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	OCCUPATIONAL EXPOSURE LIMITS	VAPOR PRESSURE	
*Toluene (CAS# 108-88-3)	30%	100 PPM	22mmHg	@20°C
*Isopropanol 99 (CAS# 67-63-0)	20%	400 PPM	37mmHg	@20°C
*Methyl Ethyl Ketone (CAS# 78-93-3)	10%	200 PPM	190mmHg	@100°F
*Methyl Isobutyl Ketone (CAS# 108-10-1)	20%	100 PPM	15mmHg	@20°C
Methyl Amyl Alcohol (CAS# 108-11-2)	20%	25 PPM	5mmHg	@20°C

## Section III—PHYSICAL DATA

BOILING RANGE 175-270°F.

VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIREVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME 100%  
WEIGHT PER GALLON 6.84

## Section IV—FIRE AND EXPLOSION HAZARD DATA

Flammable Liquid

FLAMMABILITY CLASSIFICATION

OSHA Class IB

EXTINGUISHING MEDIA

DOT

FLASH POINT 20-100°F.

LEL

☒ FOAM☐ "ALCOHOL"  
FOAM☒ CO<sub>2</sub>☒ DRY  
CHEMICAL☐ WATER  
FOG☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep work areas free of hot metal surfaces and other sources of ignition. The use of self-contained breathing apparatus is recommended for fire fighters. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool. Avoid spreading burning liquid with water used for cooling purposes.

Section 313 supplier notification: Ingredients marked with an asterisk (\*) are toxic chemicals subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 of the CFR 372.

## Section V—HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE May be an eye irritant. Prolonged or repeated skin contact may result in dermatitis. Various studies have shown a possible association with exposure to this product and the following:  
Respiratory tract irritation.  
Nausea and vomiting.  
Absorption through the intact skin  
Central nervous system depression in high concentrations.  
Peripheral neurotoxicity in high concentrations.  
Liver and kidney damage.  
Brain cell damage may result from long term inhalation of toluene vapor.

EMERGENCY AND FIRST AID PROCEDURES If this product comes in contact with the eyes or skin, flush with large quantities of water for at least 15 minutes. Seek immediate medical attention. If swallowed, induce vomiting if the victim is conscious.  
EMERGENCY: Have a physician call Los Angeles or nearest Poison Control Center.

## Section VI—REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID

INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents, strong acids, amines, anhydride, isocyanate, organometallic contaminants, halogens, halogen containing compounds and strong alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and/or carbon dioxide.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

## Section VII—SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done easily. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for cleanup. Cover with inert material to reduce fumes. Keep out of drains, sewers or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.  
WASTE DISPOSAL METHOD Dispose of product in accordance with applicable local, county, state and federal regulations.

## Section VIII—SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION Conditional on vapor concentration.

VENTILATION General

PROTECTIVE GLOVES Impermeable

EYE PROTECTION Safety Glasses

OTHER PROTECTIVE EQUIPMENT Impermeable aprons are advised when working with this products. The availability of eye washes and safety showers in work areas is recommended.

## Section IX—SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Keep product containers closed when not in use.

OTHER PRECAUTIONS

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected areas with water.

This product is sold for professional use only, not intended for retail sales.

Disclaimer of expressed and implied warranties: The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

# MATERIAL SAFETY DATA SHEET

FOR COATINGS RESINS AND RELATED MATERIALS

PRODUCT NAME: Randolph Epoxy Thinner  
PRODUCT CODE: E-500  
Class 3, Flammable Liquid, UN1263, PGII

HMS CODES: H F R P  
PRODUCT CLASS: 3 (Epoxy Thinners)

## SECTION I - MANUFACTURER IDENTIFICATION

PREPARED BY: Consolidated Aircraft Coatings  
P.O. Box 3129, Riverside, CA 92519  
STREET ADDRESS: 4343 Fort Drive, Riverside, CA 92509  
EMERGENCY TELEPHONE NO. - Chemtrec (800) 424-9300, Int'l (703) 527-3887 (International Call Collect)  
INFORMATION TELEPHONE NO. - (951) 684-4280 (951) 809-7144 (760) 782-1947  
DATE OF PREP: 9/21/05  
NAME OF PREPARER: Greg Albarian

## SECTION II- HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	OCCUPATIONAL EXPOSURE LIMITS	WT. %	VAPOR PRESSURE	TOXICITY DATA
Toluene* (CAS# 108-88-3)** Mod. Ingest. Inhal. skin	50 PPM	31.85	22mmHg @20°C	
Methyl Ethyl Ketone* (CAS# 78-93-3) inhalation	200 PPM	9.82	70mmHg @20°C	Narcotic by
Methyl Isobutylketone* (CAS# 108-10-1)	50 PPM	19.53	15mmHg @20°C	High. Inhalation.
Methyl Amyl Alcohol* (CAS# 108-11-2) abs.	25 PPM	19.77	2.2mmHg @20°C	Ingest. Inhal. Skin
Isopropyl Alcohol* (CAS# 67-63-0)	400 PPM			19.03

32.8mmHg @20°C Mod. Ingest. inhal.

\*This material is subject to the reporting requirements of section 313 of the Emergency Planning and the Community Right-

To-Know Acts of 1986 and of 40 CFR 372.

\*\*PROP 65 WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION III- PHYSICAL DATA

BOILING RANGE: 175-270° F  
VAPOR DENSITY: Heavier than air  
COATING V.O.C.: 6.83 lb/gal 819 gr/l  
APPEARANCE AND ODOR: Clear liquid, Ketone odor.  
SPECIFIC GRAVITY (H<sub>2</sub>O= 1): .82  
EVAPORATION RATE: Slower than ether  
SOLUBILITY IN WATER: Insoluble

## SECTION IV- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 20° F (-7° C)  
FLAMMABLE LIMITS IN AIR BY VOLUME:  
EXTINGUISHING MEDIA: CO<sub>2</sub>, 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 NIOS-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.  
METHOD USED: TCC  
LOWER: N/A UPPER: N/A

## SECTION V- HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Breathing vapor may irritate the nose and throat. Central nervous system effects including excitation, euphoria, contracted eye pupil dizziness, blurred vision, fatigue, nausea, headache, loss of consciousness, respiratory arrest and sudden death could occur of long term and/or high concentration exposures vapors.  
SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Contact with the skin or eyes may cause irritation. Prolonged or repeated contact can cause moderate irritation, defatting and/or dermatitis. Skin and eyes should be flushed with water for at least 15 minutes.  
INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE: Preexisting eye, skin, heart, central nervous system and respiratory disorders may be aggravated by exposure to this product.  
HEALTH HAZARDS (ACUTE AND CHRONIC): Overexposure may cause anesthesia, headache, nausea or dizziness. Breathing the vapors may irritate the nose and throat. Detectable amounts of chemicals or substances known to the

state of California to cause cancer, birth defects, or other reproductive harm may be found in this product. Use care when handling chemical and petroleum products even though they are water reducible.  
CARCINOGENICITY: NTP CARCINOGEN: N/A IARC MONOGRAPHS: N/A OSHA REGULATED: N/A  
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE TO THIS PRODUCT: Preexisting eye, skin, heart, central nervous system and respiratory disorders may be aggravated by exposure to this product.  
EMERGENCY AND FIRST AID PROCEDURES: Remove victim to fresh air and restore breathing if required. Call a physician if required. If breathing stops, give artificial respiration. Keep person warm. Never give anything by mouth to an unconscious person. Do not induce vomiting. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs.

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### **SECTION VI- REACTIVITY DATA**

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. May react strong with acids while in liquid form.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Hydrogen chloride and very small amounts of phosgene and chlorine.

HAZARDOUS POLYMERIZATION: N/A

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### **SECTION VII- SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Flush with water to a tank or to an opened well-ventilated area. Absorb or remove to container and dispose of properly in conformity with local government restrictions.

WASTE DISPOSAL METHOD: Incinerate if permitted or bury in a sanitary landfill. Consult a disposal expert. Dispose of in accordance with all local, state and federal laws. For highway or road spill, contact Chemtrec at (800) 424-9300.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers in cool, dry, isolated, well-ventilated area away from heat or flame, sources of ignition and incompatible materials. Transfer small amounts left over into small containers. Ground lines, containers and other equipment during product transfer. Do not store in glass containers due to the danger of breaking. Do not pour into containers that held highly flammable materials; static electricity may result. Use good hygiene practices. Wash hands before eating, drinking, etc.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin. Avoid prolonged or repeated breathing of vapor. Keep containers tightly closed. Replace all bungs tightly before shipping or storing. Avoid contact with amines.

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### **SECTION VIII- SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION: Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits, use a NIOSH-approved respirator to prevent overexposure. In accord with 29 CFR 1910.134, use air-purifying and particle-collecting respirator.

VENTILATION: Use explosion proof ventilation as required to control particulate and any minor vapor concentrations. A spray booth is recommended.

PROTECTIVE GLOVES: Use rubber or neoprene gloves. Use gloves that will resist the product.

EYE PROTECTION: Goggles or face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Avoid contact with eyes. Wear eye protection devices. If required, wear chemical resistant gloves and other clothing.

WORK/ HYGIENIC PRACTICES: Wash hands with soap and water before eating. Dispose of contaminated clothing as soon as possible.

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### **SECTION IX- 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.