

# SAFETY DATA SHEET

Urethane Retarder

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

PRODUCT NAME: **Urethane Retarder**  
PRODUCT NUMBER: UR-826  
RECOMMENDED USE: Aircraft Coatings and thinners  
RESTRICTIONS ON USE: Not applicable  
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

### HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids Category 3  
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

Pictogram



#### Signal word

### WARNING

#### Hazard statements

Flammable liquid and vapour.  
May cause drowsiness or dizziness

#### Precautionary statements

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion proof electrical/ ventilating/ lighting/ equipment.  
Use only nonsparking tools.

**Precautionary Statements**

Take precautionary measures against static discharge.

**Response**

In case of fire: Use dry sand, dry chemical or alcohol resistant foam to extinguish.

**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 immediately 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 cool.

**Disposal**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

May form explosive peroxides., Repeated exposure may cause skin dryness or cracking.

CLASSIFICATION (1999/45) XI, R10, R36,

**3 – COMPOSITION /INFORMATION ON INGREDIENTS**

Name	EC No.	CAS No.	Content %	Classification (67/548/EEC)
Ethyl 3-Ethoxypropionate	212-112-9	763-69-9	90-100%	XI, R10, R36, S16, S25, S33, S9

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.

**4- FIRST AID MEASURES****WARNING:**

As with all catalyzed polyurethanes, a fresh-air supplied spray mask is mandatory. Charcoal masks will not protect from polyisocyanates in the spray mist.

**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.

**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 on long term and/or high concentration exposures to 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.

#### 5- FIRE FIGHTING PROCEDURES

##### 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 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
Ethyl 3-Ethoxypropionate	ACGIH: Not Listed NIOSH: Not Listed OSHA-Final PELs: Not Listed	Consult local authorities for acceptable exposure limits



PROTECTIVE EQUIPMENTS:

PROCESS CONDITIONS:	Provide eyewash station.
ENGINEERING MEASURES:	Provide adequate ventilation. Fully equipped spray booth is recommended to ensure the workers legal exposure limits are not exceeded.
RESPIRATORY EQUIPMENT:	Wear respirator with appropriate cartridge for organic solvents and chemicals.
HANDPROTECTION:	Wear approved gloves such as Neoprene, Nitrile or Rubber types.
EYE PROTECTION:	Wear splash-proof goggles.
OTHER PROTECTION:	Wear appropriate clothing to prevent any possible skin contact.
HYGIENE MEASURES:	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.

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## 9- PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:	Liquid
COLOR:	Clear
ODOR:	Lacquer odor
BOILING POINT:	165-172° F
RELATIVE DENSITY:	0.97 g/mL
VAPOR DENSITY:	Heavier than air
FLASH POINT:	136 °F (58 ° C) (Closed Cup)
FLAMMABILITY LIMITS:	LOWER: 0.8%    UPPER: 10%
SOLUBILITY VALUE (g/100g H <sub>2</sub> O @ 20°C):	Insoluble
VOLATILE ORGANIC COMPOUND (VOC):	948 g/L

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## 10- STABILITY AND REACTIVITY

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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. 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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## 11-TOXICOLOGICAL INFORMATION

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**Ethyl 3-Ethoxypropionate (CAS#763-69-9):** Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Toxicity to Animals: Acute oral toxicity (LD50): 5000 mg/kg [Rat]. Acute dermal toxicity (LD50): 10000 mg/kg [Rabbit]. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified + (PROVEN) by OSHA. Classified None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), . Slightly hazardous in case of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

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## 12- ECOLOGICAL INFORMATION

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**Ethyl 3-Ethoxypropionate (CAS#763-69-9):** Ecotoxicity: Not available. BOD5 and COD: Not available. Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic

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## 13 – DISPOSAL CONSIDERATIONS

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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.

**I certify that all chemicals in this shipment comply with all applicable rules or orders under TSCA and that I am not offering a chemical substance for entry in violation of TSCA or any applicable rule or order under TSCA.**

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14 – TRANSPORT INFORMATION**DOT / ADR / RID Classification:**

**DOT PROPER SHIPPING NAME: PAINT RELATED MATERIAL**  
**PRIMARY HAZARD CLASS/DIVISION: 3**  
**UN/UA NUMBER: UN1263**  
**PACKING GROUP: III**

**IMDG and ADN Classification:**

**IMDG PROPER SHIPPING NAME: PAINT RELATED MATERIAL**  
**IMDG UN CLASS: 3**  
**IMDG UN NUMBER: UN1263**  
**IMDG PACKING GROUP: III**  
**IMDG LABEL: FLAMMABLE LIQUID**  
**IMDG VESSEL STOWAGE: A**

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

**GHS LABEL:****WARNING**

**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 SDS for additional information on safe handling / use. - Keep out of reach of children. For Industrial Use Only.

**Contains:** Ethyl 3-ethoxypropionate (90-100%). This product contains one or more chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

**Hazards:** Flammable liquid and vapor.


**Precautionary Statement(s):** Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. P240: Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/light/.../equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction. Store in a well ventilated place. Keep cool.

**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.

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**15 – REGULATORY INFORMATION**

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 **WARNING!** This material contains a chemical known to the State of California to cause cancer. [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Hazards:** Flammable liquid and vapor.

**Precautionary Statement(s):** Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. P240: Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/light/.../equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction. Store in a well ventilated place. Keep cool.

CODES:



XI



F

- XI=harmful
- F=highly flammable

R-Phrases:

R10: Flammable  
R36: Irritating to eyes

S-Phrases:

S9: Keep container in a well-ventilated place  
S16: Keep away from sources of ignition - No smoking  
S25: Avoid contact with eyes  
S33: Take precautionary measures against static discharges

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**16- DISCLAIMER**

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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.