

# SAFETY DATA SHEET

UV Blocker

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

PRODUCT NAME: **UV Blocker**  
PRODUCT NUMBER: 3-PTUV  
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**

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) Xn,R48/20,R65, Repr.Cat.3, Xi, R36/38, F, R11, R67

**3 – COMPOSITION /INFORMATION ON INGREDIENTS**

Name	EC No.	CAS No.	Content %	Classification (67/548/EEC)
Toluene	203-625-9	108-88-3	40-50%	R11, R20, S16, S25, S29, S33
Methyl Isobutyl Ketone	203-550-1	108-10-1	10-20%	XI, F, R11, R20, S29, S9, S16
Methyl n-Amyl Ketone	203-767-1	110-43-0	10-20%	R10, R22, S23
Methyl Ethyl Ketone	201-159-0	78-93-3	0-10%	XI, F, R11, R36, R66, R67
Propylene Oxide	200-879-2	75-56-9	0-10%	R12, R20, R21, R22, R36, R37, R38, R45, R46, S45, S53
n-Butanol	200-751-6	71-36-3	0-10%	XN, R10, R22, R37/38, R41, R67, S13, S26, S37/39, S46, S7/9
Glycol Ether EB	203-905-0	111-76-2	0-10%	XN, R20/21/22, R36/38, S36/37, 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.

**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:**

CO2, Dry Chemical, Water Fog

**SPECIAL FIREFIGHTING PROCEDURE:**

Do not use a direct stream of water. Product may float and can be re-ignited 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
Toluene	ACGIH: 20 ppm TWA NIOSH: 100 ppm TWA; 375 mg/m3 TWA 500 ppm IDLH OSHA-Final PELs: 200 ppm TWA; 300 ppm Ceiling	Consult local authorities for acceptable exposure limits
Methyl Ethyl Ketone	ACGIH: 200 ppm TWA; 300 ppm STEL NIOSH: 200 ppm TWA; 590 mg/m3 TWA 3000 ppm IDLH ; OSHA-Final PELs: 200 ppm TWA; 590 mg/m3 TWA	Same As Above
Methyl Isobutyl Ketone	ACGIH: 50 ppm; 75 ppm STEL NIOSH: 50 ppm TWA; 205 mg/m3 TWA 500 ppm IDLH OSHA-Final PELs: 100 ppm TWA; 410 mg/m3 TWA	Same As Above

Methyl Amyl Ketone	ACGIH: 50ppm TWA NIOSH: 100ppm TWA; 465 mg/m <sup>3</sup> TWA OSHA-Final PELs: 100ppm TWA; 465 mg/m <sup>3</sup> TWA	Same As Above
Glycol Ether EB	ACGIH: 20 ppm TWA NIOSH: 5 ppm TWA; 24 mg/m <sup>3</sup> TWA 700 ppm IDLH OSHA-Final PELs: 50 ppm TWA; 240 mg/m <sup>3</sup> TWA	Same As Above
Propylene Oxide	ACGIH: 2ppm TWA NIOSH: 400 ppm TWA OSHA-Final PELs: 100ppm TWA,240 mg/m <sup>3</sup> TWA	Same As Above
n-Butanol	ACGIH: 20 ppm TWA NIOSH: 1400 ppm IDLH OSHA-Final PELs: 100 ppm TWA; 300 mg/m <sup>3</sup> TWA	Same As Above

**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:	Liquid
COLOR:	Clear.
ODOR:	Ketone characteristics
BOILING POINT:	175-345° F
RELATIVE DENSITY:	0.91 g/mL
VAPOR DENSITY:	Heavier than air
FLASH POINT:	45°F (7° C) (Closed Cup)
FLAMMABILITY LIMITS:	LOWER: NA UPPER: NA
SOLUBILITY VALUE (g/100g H <sub>2</sub> O @ 20°C):	Insoluble
VOLATILE ORGANIC COMPOUND (VOC):	689 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. May react strongly with acids while in liquid form.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:**

Hydrogen chloride and very small amounts of phosgene and chlorine.

**HAZARDOUS POLYMERIZATION:**

N/A

**11-TOXICOLOGICAL INFORMATION**

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

**Methyl Ethyl Ketone (CAS# 78-93-3):**LD50/rabbit/skin/draize test = 500mg/24H Moderate; LC50/mouse/inhalation = 32mg/m<sup>3</sup>/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.

**Methyl n-Amyl Ketone (CAS#110-43-0):** LD50/rabbit/dermal = 12.6mL/kg;LD50/rat/oral = 1600mg/kg; Carcinogenicity: Not listed by IARC, NTP or OSHA.

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

**Propylene Oxide (CAS#75-56-9):** Dermal contact. Eye contact. Inhalation. Ingestion. **Toxicity to Animals:** WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 380 mg/kg [Rat]. Acute dermal toxicity (LD50): 1500 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 4000 ppm 4 hour(s) [Rat]. LC50/mouse = 1740ppm,4 hrs; Carcinogenicity: listed in NTP and classified by IARC **Chronic Effects on Humans:** CARCINOGENIC **EFFECTS:** Classified 2 (Reasonably anticipated.) by NTP. The substance is toxic to lungs, mucous membranes. **Other Toxic Effects on Humans:** Very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (irritant, permeator).

**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.

**n-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

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## 12- ECOLOGICAL INFORMATION

**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: Photo chemically produced hydroxyl radicals degrade substance.

**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 photo degrades 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.

**Methyl n-Amyl Ketone (CAS#110-43-0):** Ecotoxicity: No data available.

**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.

**Propylene Oxide (CAS#75-56-9):** Ecotoxicity: No adverse ecological effects expected. Environmental: This substance does not contain Class I and II ozone-depleting chemical. **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 products of degradation are as toxic as the original product. **Special Remarks on the Products of Biodegradation:** Not available.

**n-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

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## 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.

**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**

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**DOT / ADR / RID Classification:**

**DOT PROPER SHIPPING NAME: PAINT**  
**PRIMARY HAZARD CLASS/DIVISION: 3**  
**UN/UA 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 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:** Toluene (40-50%), Methyl Isobutyl Ketone (10-20%), Methyl n-Amyl Ketone (10-20%), Methyl Ethyl Ketone (0-10%), Propylene Oxide (0-10%), n-Butanol (0-10%), and Glycol Ether EB (0-10%). This product contains one or more chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

**Hazards:** Highly flammable liquid and vapor. Causes serious eye damage. Causes skin irritation. May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure: Inhalation - auditory dysfunction. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects. Suspected of damaging fertility or the unborn child.

**Precautionary Statement(s):** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Store in a well-ventilated place. Keep container tightly closed. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area. 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.

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**15 – REGULATORY INFORMATION**

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**Hazards:** Highly flammable liquid and vapor. Causes serious eye damage. Causes skin irritation. May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure: Inhalation - auditory dysfunction. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects. Suspected of damaging fertility or the unborn child.

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

CODES:



XN and XI



F

- XN and XI=harmful
- F=highly flammable

R-Phrases:

R10: Flammable  
R11: Highly Flammable  
R12: Extremely Flammable  
R15: Contact with water liberates extremely flammable gases  
R17: Spontaneously flammable in air  
R20: Harmful by inhalation  
R21: Harmful in contact with skin  
R22: Harmful if swallowed  
R36: Irritating to eyes  
R37: Irritating to respiratory system  
R38: Irritating to skin  
R45: May cause cancer  
R46: May cause heritable genetic damage  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R65: Harmful: may cause lung damage if swallowed  
R66: Repeated exposure may cause skin dryness or cracking  
R67: Vapors may cause drowsiness and dizziness

S-Phrases:

S7/8: Keep container tightly closed and dry  
S9: Keep container in a well-ventilated place  
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  
S29: Do not empty into drains  
S33: Take precautionary measures against static discharges  
S36: Wear suitable protective clothing  
S43: In case of fire use ... (indicate in the space the precise type of fire-fighting equipment.) Never use water  
S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)  
S53: Avoid exposure - obtain special instructions before use  
S60: This material and its container must be disposed of as hazardous waste  
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

**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.