

**MATERIAL SAFETY DATA SHEET**

**WHMIS Hazard Classification: H F R P**  
 1 2 0 A

**Date: 9.1.08**

**SECTION I PRODUCT IDENTIFICATION**

**Product Identifier:** UreFlex AL  
**Product Use:** Polycarbon/Polycarbonate

**Supplier's Name:** Pro-Seal Products  
**Address:** 16541 Redmond Way Suite 363C  
 Redmond, WA 98052

**Emergency Number:** (800) 424-9300

**Information:** (800) 349-7325

**SECTION II HAZARDOUS INGREDIENT**

Ingredients	%	CAS #	OSHA PEL	ACGIH TLV	Other Limits
Aromatic Petroleum Naphtha Residual Aliphatic Disocyanate ( Isophorone Disocyanate )	10-30	64742-95-G 5124-30-1	100 ppm 0.005ppm	100ppm/twa 0.2ppm/twa	150ppm/stel

**SECTION III PHYSICAL DATA**

**Odor & Appearance:** Aromatic odor/clear and pigmented liquid mixture, solvent based coating.

**Specific Gravity (H<sub>2</sub>O = 1):** 1.13 – 1.16

**Vapor Density (Air-1 > than Air)**

**Melting Point:** not available

**Evaporation Rate:** (Butyl Acetate = 1) less than 0

**Vapor Pressure:** no data

**Weight per Gallon:** 9.40-9.70 pounds:

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**Flash Point (Method):** 120 °F (COC)

**Flammable Limits:** LEL – 0.70% UEL – 6.0%

**Extinguishing Media:** Dry chemical, foam carbon dioxide, halogenated agents. If water is used, use very large quantities. The reaction between water and hot isocyanate may be vigorous

**Special Fire Procedures:** Self-contained breathing apparatus with full face piece and protective clothing.

**Unusual Fire and Explosion Hazards:** Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure build-up may rupture them.

**SECTION V REACTIVITY DATA**

**Stability:** Stable (under normal conditions)

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition Products/or By-Products:** Combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxides, ammonia. Trace amounts of hydrogen cyanide.

**Incompatibility (Materials to Avoid):** This material will react with any material containing active hydrogen, such as water, alcohols, ammonia, amines, alkalies and acids.

**Conditions to Avoid:** Avoid water contact, alcohols, amines, acids and alkalies. CAUTION! Photo chemically reactive to liquid mixture.

**Hazardous Polymerization:** May occur

**Conditions to Avoid:** High temperature in the presence of alkalies, tertiary amines, and metal compounds will accelerate polymerization. Possible evolution of carbon dioxide gas may rupture closed containers.

## SECTION VI TOXICOLOGICAL DATA

**Route of Entry:** Inhalation, Eyes, Skin, Ingestion

**Health Hazards (Acute and Chronic):**

**Acute:** May cause irritation of the mouth, pharynx, esophagus and stomach in case of ingestion. In case of skin contact, irritation may result causing redness, rash and etching. In case of eye contact, possible irritation to throat, nose, and respiratory tract.

**Chronic:** Prolonged and repeated contact can result in skin sensation and allergic skin reactions (rashes, hive-like swelling and blisters) resulting in dermatitis. Inhalation may cause central nervous depression and asthma-like conditions upon prolonged inhalation. Respiratory sensitization may also result on prolonged repeated exposure.

**Carcinogenic:** No data    **NTP:** No data    **LARC Monographs:** No data    **OSHA Regulated:** No

Signs and Symptoms of Exposure: Chronic cough, tightness in chest with difficulty in breathing, redness of eyes, irritation to skin causing redness, etching, irritation of mouth, pharynx, esophagus and stomach through ingestion.

**Medical Conditions Generally Aggravated by Exposure:** Prolonged and repeated exposure may result to respiratory problem such as coughing, tightness of chest, dermatitis such as acne, hives, itching, etc.

## SECTION VII PREVENTATIVE MEASURES

**Respiratory Protection:** Wear MSHA/NIOSH approved positive pressure supplied air respiratory with full face piece, or an air-supplied hood.

**Ventilation:** Local exhaust, Mechanical (General)

**Protective Gloves:** Nitrile or neoprene gloves and/or clothing.

**Eye Protection:** Chemical tight goggles, full face shield in addition if splashing is possible.

**Work/Hygienic Practices:** Wash before eating, drinking, or smoking. Do not wear contaminated clothing or other protective clothing if contaminated. Wear all necessary equipment and clothing while working with this type of product

**Steps to be taken in case material is released or spilled:** Wear protective equipment and clothing during clean-up. Soak up material with absorbent and shovel into a chemical waste container. Cover container, but do not seal, and remove from work area. Get prepared before using this material with decontaminated solution of 0.2-0.5% liquid detergent and 3-8% concentrated ammonium hydroxide in water. Clean the area of spill with solution.

**Waste Disposal Method:** Neutralize the waste with the decontaminated solution. Let it stand for 48 hours, allowing carbon dioxide to vent away. Dispose the waste in accordance to local, state and federal regulations.

Precautions to be taken in handling and storing: Prevent skin and eye contact. Avoid breathing vapors and mist. A sensitized person should not allow to get exposed to the product. Store in tightly sealed containers to protect for atmospheric moisture. Store in cool dry place.

**Other Precautions:** Individuals with existing respiratory disease such as chronic bronchitis, emphysema or asthma should not be exposed to isocyanates. Do not drink, eat or smoke while working with this product. Wash before such activity. KEEP AWAY FROM CHILDREN. Keep away from ignition sources such as fire, flame and sparks.

## SECTION VIII CONTROL MEASURES/PROTECTION INFORMATION

**Emergency First Aid Procedures:**

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If redness, itching or burning sensation develop, have eyes examined and treated by medical personnel.

**Skin:** Wash material off the skin with plenty of soap and water. If redness, itching, or burning develops, consult a physician immediately.

**Inhalation:** Give 1 or 2 glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel immediately, (never give anything by mouth to an unconscious person)

## SECTION IX PREPARATION INFORMATION

Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information. Pro-Seal Systems Div ICP, Inc extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes of for consequences of its use.

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