

**MATERIAL SAFETY DATA SHEET**

**PRODUCT NAME:** URECON PART A

**HMIS CODES:** H F R P

**PRODUCT CODE:** URECON-I

1 1 0 -

(Used with following Urecon products: TG, SL, SC)

**SECTION 1: MANUFACTURER IDENTIFICATION**

**MANUFACTURER'S NAME:** KEY RESIN COMPANY

**ADDRESS:** 4050 Clough Woods Drive  
Batavia, Ohio 45103

**EMERGENCY NUMBER:** 1-800-424-9300

**DATE PRINTED:** 05/29/12

**INFORMATION NUMBER:** 1-513-943-4225

**PREPARER:** R. CAIN

**SECTION 2: HAZARDOUS INGREDIENTS**

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH		CARCINOGEN
			TLV	WT %	
Low Molecular Weight Polyol	8001-79-4	5 mg/m <sup>3</sup>	10mg/m <sup>3</sup>	40-70	NO
Butyl Benzyl Phthalate	85-68-7	NE	NE	7-15	NO
Terpine Alcohol		NE	NE	0-5	NO
Non-ionic Wetting Agents		NE	NE	0-5	NO
Mineral Oil		NE	NE	10-15	NO
Water		NE	NE	10-25	NO

Depending on color, one or more of the following may be present:

Titanium Dioxide	13463-67-7	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	1-5	NO
Black Iron Oxide	1317-61-9	10 ppm	10 mg/m <sup>3</sup>	<1	NO
Red Iron Oxide	1332-37-2	10 ppm	10 mg/m <sup>3</sup>	1-5	NO
Yellow Iron Oxide	51274-00-1	10 ppm	5 mg/m <sup>3</sup>	<1	NO

The exposure limits shown above for pigments are for dust exposure. They are not known to be hazardous after blended into a liquid. Wet sanding is suggested to eliminate airborne dust, if product is machined or ground. The only other exposure limits established for ingredients of this product apply to nuisance dusts from inert fillers. These fillers are blended into a liquid and pose no hazard as supplied.

Substances listed are present in concentration of 1% or greater, or 0.1% if cited as a potential Carcinogen in the OSHA hazards communication standard. Where proprietary ingredient is listed, the identity is available as provided in 29 CFR 1910.1200.

NE - Not Established

**SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>BOILING POINT</b>	Approx. 223°F (106°C)
<b>VAPOR DENSITY</b>	NE
<b>VAPOR PRESSURE</b>	0.12 mbar @112°F (50°C)
<b>VOC</b>	nil
<b>SOLUBILITY IN WATER</b>	Partially Soluble
<b>APPEARANCE AND ODOR</b>	Yellowish liquid with slight odor
<b>SPECIFIC GRAVITY (H2O=1)</b>	1.11 @ 68°F (20°C) DIN 53217
	NE-Not Established

**SECTION 4: FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** Not applicable (water based product), however, solid material will support combustion if water has become evaporated.

**METHOD USED:** NE

**FLAMMABLE LIMITS IN AIR BY VOLUME** LOWER: Not determined  
UPPER: Not determined

**EXTINGUISHING MEDIA:** Carbon Dioxide; Dry Chemical; Foam; Water spray for large fires.

**SPECIAL FIRE FIGHTING PROCEDURES:** Full emergency equipment with self-contained breathing apparatus should be worn by firefighters.

#### SECTION 4: FIRE AND EXPLOSION HAZARD DATA (CON'T)

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** During a fire irritating, toxic gases and smoke are present from decomposition and combustion. Closed container may explode when exposed to extreme heat. Solid residue will support combustion after the water has evaporated.

#### SECTION 5: REACTIVITY DATA

**STABILITY:** This is a stable material

**CONDITIONS TO AVOID:** Temperatures below 32°F (0°C). Product will freeze.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing or reducing agents

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** By fire: CO, CO<sub>2</sub>, oxides of nitrogen and other aliphatic fragments

**HAZARDOUS POLYMERIZATION:** Will not occur.

#### SECTION 6: HEALTH HAZARD DATA

##### HEALTH RISKS AND SYMPTOMS OF EXPOSURE (ACUTE):

**INHALATION:** The modified ether alcohol, the ester of fatty acids and the low molecular weight polyol vapors are irritating to the eyes, nose and throat. Symptoms of irritation may include red, itchy eyes, dryness of the throat and tightness of the chest. Vapor or spray mist of the low molecular weight polyol in sufficient concentrations may interfere with respiratory function. At elevated temperatures the generated vapor or mist may cause irritation and dehydration of the mucous membranes.

**EYE:** Liquid, aerosols and concentrated vapors of solvents are irritating and can cause pain, tearing, reddening and swelling of the eyes. If left untreated, corneal damage can occur and injury is slow to heal. Damage is usually reversible.

**SKIN:** Repeated or prolonged skin contact with the modified ether alcohol and the low molecular weight polyol can result in dry, defatted and cracked skin causing increased susceptibility to infection. In addition, irritation (i.e. redness and swelling) that may develop into dermatitis may occur from skin contact. These substances may penetrate the skin, and may cause effects similar to those identified under acute inhalation symptoms.

**INGESTION:** The product can cause gastrointestinal distress and can result in irritation in the digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

##### HEALTH HAZARDS (CHRONIC):

**INHALATION:** Repeated overexposures to the low molecular weight polyol may cause increased fat levels in the blood.

**SKIN:** Chronic skin exposure may cause effects similar to those identified under chronic inhalation effects.

##### CARCINOGENICITY:

**NTP CARCINOGEN:** NO **IARC MONOGRAPHS:** NO **OSHA REGULATED:** NO

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** With repeated contact this product may aggravate an existing dermatitis or other allergic reactions

## SECTION 6: HEALTH HAZARD DATA (CON'T)

### EMERGENCY AND FIRST AID PROCEDURES:

**EYES:** Flush immediately with clean, luke warm water (low pressure) for at least 15 minutes, while using fingers to hold eyelids open. Obtain medical attention if irritation develops or persists.

**SKIN:** Immediately remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse. If irritation persists, contact a physician.

**INGESTION:** DO NOT INDUCE VOMITING. Give 1 to 2 cups of water or milk to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. Consult a physician.

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**INHALATION:** Immediately remove from area to fresh air if breathing is difficult. If individual has stopped breathing administer oxygen. Obtain medical attention.

## SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Evacuate all non-essential personnel. Ventilate the area. Equip cleanup crew with appropriate protective equipment. Dike or impound spilled material and control further spillage if feasible. Do not allow spilled material to get into the sewer systems, or the ground water supply. Notify appropriate authorities if necessary. Cover spill with sawdust, vermiculite, Fuller's earth or other absorbent material. Collect material in open containers. Remove containers to safe place and cover. Flush spill area with water.

### WASTE DISPOSAL METHOD:

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials. Do not get material in the eyes or on the skin. Avoid breathing vapors. Educate and train employees in the safe handling of this product.

**TRANSPORTATION EMERGENCIES:** Key Resin Company requires that CHEMTREC be immediately notified (800-424-9300) when this product is unintentionally released from its container during the course of its distribution. Distribution includes transportation, storage incidental to transportation, loading and unloading. Such notification must be immediate and made by the person having knowledge of the release.

## SECTION 8: CONTROL MEASURES

**RESPIRATORY/ VENTILATION PROTECTION:** Exhaust ventilation sufficient to keep the airborne concentrations of the hazardous constituents below applicable exposure limits must be utilized. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the buildup of explosive atmospheres and to prevent off gases from entering the workplace. In addition, a respirator that is recommended or approved for the use in organic vapor containing environments (air purifying or fresh air supplied) may be necessary. In spray applications an organic vapor/particulate respirator or air supplied unit is necessary. Consider type of application and environmental concentrations. Take into account other materials being used concurrently. Observe OSHA regulations for respirator use (29 CFR 1910.134).

**PROTECTIVE GLOVES:** Chemical resistant gloves (PVC or rubber). Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area covered only by the cream to a minimum.

**EYE PROTECTION:** Liquid chemical goggles or faceshield. Contact lenses should not be worn.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Safety showers and eyewash stations should be easily accessible to the work area. Educate and train employees in safe use of product. Follow all labeled instructions.

**WORK/HYGIENIC PRACTICES:** Practice good industrial hygiene. Wash with soap and water before eating, smoking, or using the restroom.

## SECTION 9: REGULATORY INFORMATION

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

It listed on the TSCA Inventory.

**CERCLA REPORTABLE QUANTITY:** None

**SARA TITLE III SECTION 302:** None

**SARA TITLE III SECTION 311/312:** Immediate health hazard; delayed health hazard

**SARA TITLE III SECTION 313:** None

**HAZARDOUS WASTE INFORMATION:** Waste material must be disposed of in accordance with federal, state, and local environmental control regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue and solvent vapors. Decontaminate containers prior to disposal. DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

**DOT PROPER SHIPPING NAME:** Not regulated for nonbulk highway transportation

**HAZARDOUS SUBSTANCE:**

**HAZARD CLASS:**

**UN/NA ID NUMBER:**

**PACKING GROUP:**

**DOT PRODUCT RQ lbs (kgs):**

**DOT LIMITED QUANTITY PKG:**

**SECTION 10: DISCLAIMER**

Data and recommendations presented herein are based upon our and other researchers and are believed to be accurate. The products discussed are distributed without warranty (expressed or implied) and the customer shall make his own determination of suitability for his particular purpose.