

**MATERIAL SAFETY DATA SHEET**  
**KEY RESIN #452 URETHANE TOPCOAT PART A**

**PRODUCT NAME:** KEY #452 40% Solids Acrylic Urethane PART A  
**PRODUCT CODE:**

**HMIS CODES:** H F R P  
3 3 0 --

**SECTION 1: MANUFACTURER IDENTIFICATION**

**MANUFACTURER'S NAME:** KEY RESIN COMPANY  
**ADDRESS:** 4050 Clough Woods Drive  
Batavia, OH 45103

**EMERGENCY NUMBER:** 1-800-424-9300  
**INFORMATION NUMBER:** 1-513-943-4225

**DATE PRINTED:** 01/26/10  
**NAME OF PREPARER:** R. CAIN

**SECTION 2: HAZARDOUS INGREDIENTS/SARA III INFORMATION**

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	WT %	VAPOR PRESS.
N-Butyl Acetate	123-86-4	150 ppm	150 ppm	10-20	8.4mm Hg @ 68 deg. F
Glycol Ether PM Acetate	108-65-6	NE	NE	1-3	3.7mm Hg @ 68 deg. F
Polyurethane Polyols	Mixture	NE	NE	50-60	NE
Xylene*	1330-20-7	100 ppm	100 ppm	4-8	5.1mm Hg @ 68 deg. F

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

**SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS**

**BOILING RANGE** : 240° F  
**VAPOR DENSITY** : Heavier than air  
**SOLUBILITY IN WATER** : No  
**APPEARANCE AND ODOR** : Clear Liquid with solvent odor  
**WEIGHT PER GALLON** : 8.1 lbs. (± 0.25)  
**EVAPORATION RATE** : Slower than ether  
**PERCENT VOC BY VOLUME** : 44% (56-60% solids)

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

**FLASH POINT:** 78° F

**METHOD USED:** TCC

**FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER:** 1.0  
**UPPER:**

**EXTINGUISHING MEDIA:** Foam, Alcohol Foam, CO2, Dry Chemical

**OSHA FLAMMABILITY CLASSIFICATION:** Flammable Liquid IC

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH/MSHA approved self contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool. Water may be ineffective as an extinguishing agent.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapors are heavier than air and may travel along the ground or be moved by ventilation to ignition sources at locations distant from material handling point. Pressure may build up in containers and create an explosion hazard.

**SECTION 5: REACTIVITY DATA**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** All sources of ignition.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Oxidizing agents, strong acids & bases

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon monoxide, carbon dioxide, nitrogen oxides and organic compounds.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## SECTION 6: HEALTH HAZARD DATA

### HEALTH RISKS AND SYMPTOMS OF OVEREXPOSURE:

**EYES:** Irritation, burning, tearing, and redness.

**SKIN:** Moderate irritation or defatting of skin upon prolonged or repeated contact.

**INGESTION:** Abdominal pain, nausea, vomiting and diarrhea.

**INHALATION:** Excessive exposure to vapors can cause headache, dizziness, uncoordination, nausea, and loss of consciousness.

### EMERGENCY AND FIRST AID PROCEDURES:

**EYES:** Flush with cool water for at least 15 minutes. Call a physician.

**SKIN:** Remove contaminated clothing, wash skin with soap and water. Launder contaminated clothing before reuse.

**INGESTION: Do Not Induce Vomiting.** Get medical attention immediately.

**INHALATION:** Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**CARCINOGENICITY:** NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No

## SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Dike spill area. Soak up with absorbent material and place in sealed metal containers for proper disposal.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state and federal EPA regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Store in dry area. Keep away from open flames and high temperatures.

**OTHER PRECAUTIONS:** Minimize contact. Avoid breathing vapors. Practice good industrial hygiene and safe working practices.

## SECTION 8: CONTROL MEASURES

**RESPIRATORY PROTECTION:** Use NIOSH approved carbon mask respirator under appropriate OSHA standards and regulations. A combination of both proper ventilation and respiratory protection would tend to eliminate most risks.

**VENTILATION:** Local exhaust is recommended.

**PROTECTIVE GLOVES:** Recommended

**EYE PROTECTION:** Wear liquid chemical goggles. Contact lenses should not be worn.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eye wash facility and safety shower recommended. Long sleeve shirts and pants.

**WORK/HYGIENIC PRACTICES:** Wash hands with soap and water after using and before eating.

## SECTION 9: REGULATORY INFORMATION

**D. O. T. PROPER SHIPPING NAME:** Resin Solution, Flammable; 3; UN1866; PG III

**PROPER SHIPPING NAME:** Resin Solution, flammable

**HAZARD CLASS:** Class 3, Flammable Liquid

**UN/NA ID NUMBER:** UN 1866

**PACKING GROUP** III

## 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.