

MATERIAL SAFETY DATA SHEET
KEY RESIN #452 URETHANE TOPCOAT PART B

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

HMS CODES: H F R P
3 3 1 --

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	1-5	8.4mm Hg @ 68 deg. F
Methyl Ethyl Ketone*	78-93-3	200 ppm	200 ppm	35-40	70mm Hg @ 68 deg. F
Isocyanate Oligomer	Mixture	0.5 mg/m ³ (TWA) 1.0 mg/m ³ (STEL)		50-60	NE

* 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 : 175° F
VAPOR DENSITY : Heavier than air
SOLUBILITY IN WATER : No
APPEARANCE AND ODOR : Clear to amber liquid, mild aromatic odor
WEIGHT PER GALLON : 8.1 lbs (± 0.25)
EVAPORATION RATE : Slower than ether
PERCENT VOC BY VOLUME : 30%

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 36° 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 IB

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 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 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 EXPOSURE:

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.

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

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.

INGESTION: **Do not induce vomiting.** Get medical attention immediately.

INHALATION: Move to fresh air. Aid breathing if necessary. Call a physician.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike spill area. Absorb with inert absorbant material. Place in sealed 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 II

PROPER SHIPPING NAME: Resin Solution, flammable

HAZARD CLASS: Class 3, Flammable Liquid

UN/NA ID NUMBER: UN 1866

PACKING GROUP II

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.