

# MATERIAL SAFETY DATA SHEET

## KEY #445 URETHANE SEALER PART A

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HMIS CODES: H F R P  
1 0 0

PRODUCT CODE: KEY -445-000

### SECTION 1: MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: KEY RESIN COMPANY  
ADDRESS: 4061 Clough Woods Drive  
Batavia, OH 45103  
EMERGENCY NUMBER: 1-800-424-9300 DATE PRINTED: 03/07/06  
INFORMATION NUMBER: 1-513-943-4225 NAME OF PREPARER: R. CAIN

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

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	WT%	TLV TWA	TLV STEL
None	N/A	NE	NE	NE	NE

This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

NE - Not Established

### SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE : 212°F  
VAPOR DENSITY (Air = 1.0) : .569 air  
VAPOR PRESSURE : 29.33 mm Hg @ 68°F  
SOLUBILITY IN WATER : Dispersible  
APPEARANCE AND ODOR : Slight ammonia odor  
SPECIFIC GRAVITY (H2O=1) : 1.05  
EVAPORATION RATE (Butyl Acetate = 1) : .38 (Butyl acetate=1)

### SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >250° F

METHOD USED: Setaflash

FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 25.00

UPPER: 16.00

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam and/or Water Fog.

OSHA FLAMMABILITY CLASSIFICATION:

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters must wear self contained breathing apparatus or air masks.  
Containers exposed to fire should be kept cool with water spray. Do not spray fire directly. A solid stream of water directed into the hot burning liquid could cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

### SECTION 5: REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: By fire: CO2, CO, and other aliphatic fragments.

HAZARDOUS POLYMERIZATION: None

### SECTION 6: HEALTH HAZARD DATA

**HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

**INHALATION:** Harmful if inhaled. May affect the brain, nervous system or respiratory system causing dizziness, headache, nausea or respiratory irritation.

**SKIN:** May cause irritation.

**EYE:** May cause irritation.

**SKIN ABSORPTION:** Can be absorbed through the skin.

**INGESTION:**

**HEALTH HAZARDS (ACUTE AND CHRONIC):** 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. Contains ingredients which may cause liver damage, kidney damage, mucous membrane irritation.

**CARCINOGENICITY:** **NTP CARCINOGEN:** **IARC MONOGRAPHS:** **OSHA REGULATED:**

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Proposition 54 Statement: Warning! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. Medical conditions generally aggravated by exposure - any respiratory or skin condition.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** Flush immediately with plenty of water for at least 15 minutes and get medical attention.

**SKIN:** Wash thoroughly with soap and water.

**INGESTION:** If swallowed, get medical attention immediately.

**INHALATION:** If affected by inhalation of vapor or spray mist, remove to fresh air.

**POSSIBLE ROUTES OF ENTRY:** Inhalation, ingestion and skin absorption.

**SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Ventilate area. Avoid breathing of vapors.

Use self-contained breathing apparatus or air mask for large spills in a confined area. Eliminate ignition sources.

Remove with inert absorbent and non-sparking tools. Avoid contact with eyes.

**WASTE DISPOSAL METHOD:** Dispose in chemical disposal area or in a manner that complies with local, state, and federal regulations. Do not incinerate closed containers.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Containers should be grounded/bonded when pouring. Avoid free fall of liquid in excess of a few inches. Keep away from heat, sparks and open flames. Keep containers closed when not in use. Do not store above 120 deg. F. Based on the product flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container. All label warnings must be observed until the container has been cleaned or reconditioned.

**OTHER PRECAUTIONS:**

## **SECTION 8: CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Wear appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use.

**VENTILATION:** Required for handling in a confined area, ventilation equipment should be explosion proof. Eliminate ignition sources.

**PROTECTIVE GLOVES:** Usual hand protection for handling resin products.

**EYE PROTECTION:** A minimum of safety glasses with side shields for handling Resin materials.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Usual clothing for handling Resin products.

**WORK/HYGIENIC PRACTICES:**

## **SECTION 9: REGULATORY INFORMATION**

**D. O. T. PROPER SHIPPING NAME:** Polyester Resin Dispersion

**PROPER SHIPPING NAME:** Synthetic Resin Liquid

**HAZARD CLASS:**

**UN/NA ID NUMBER:**

**PACKING GROUP**

## **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.