# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** KEY COLD CURE HARDENER PART B **HMIS CODES:** H F R P
**PRODUCT CODE:** KR-502/510/520-CC-B 3 1 0 C

## SECTION 1: MANUFACTURER IDENTIFICATION

**MANUFACTURER'S NAME:** KEY RESIN COMPANY
**ADDRESS:** 4061 Clough Woods Drive
Batavia, Ohio 45103
**EMERGENCY NUMBER:** 1-800-424-9300 **DATE PRINTED:** 03/28/06
**INFORMATION NUMBER:** 1-513-943-4225 **PREPARER:** R. CAIN

## SECTION 2: HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENTS | CAS NUMBER | OSHA PEL | ACGIH TLV | WT % | CARCINOGEN |
|---|---|---|---|---|---|
| Benzene-1, 3-Dimethanamine | 1477-55-0 | NE | NE | 10-20 | NO |
| Trimethylhexamethylenediamine | 3236-53-1 | NE | NE | 10-20 | NO |
| Paratertiarybutylphenol | 98-54-4 | NE | NE | 30-40 | NO |
| Benzyl Alcohol | 100-51-6 | NE | NE | 1-10 | NO |
| Alkyl Phenol | 84852-15-3 | NE | NE | 20-30 | NO |

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

| | |
|---|---|
| **BOILING POINT** | >390° F |
| **VAPOR DENSITY** | NE |
| **VAPOR PRESSURE** | Approx. 1mm Hg @ 200° F |
| **VOC** | 0.00 |
| **SOLUBILITY IN WATER** | Partial |
| **APPEARANCE** | Low viscosity with sharp ammonia odor |
| **SPECIFIC GRAVITY (H20=1)** | 0.99 |
| **EVAPORATION RATE** | NE |

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** >200° F
**METHOD USED:** Closed Cup
**FLAMMABLE LIMITS IN AIR BY VOLUME** **LOWER:** Not determined
**UPPER:** Not determined
**EXTINGUISHING MEDIA:** Foam, dry chemical, CO2
**OSHA FLAMMABILITY CLASSIFICATION:** Combustible liquid, Class III B
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear positive pressure self contained breathing equipment. Use water to cool containers exposed to fire.
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Toxic fumes present when this material involved in fire. Containers may rupture.

## SECTION 5: REACTIVITY DATA

**STABILITY:** Normally Stable.
**CONDITIONS TO AVOID:** Contact with acids such as Hydrochloric or Sulfuric.
**INCOMPATIBILITY (MATERIALS TO AVOID):** Avoid strong oxidizing agents and epoxy resins under uncontrolled conditions.

## SECTION 5: REACTIVITY DATA (CON'T)

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** When exposed to fire, oxides of Carbon and Nitrogen will be generated.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## SECTION 6: HEALTH HAZARD DATA

**HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

**INHALATION:** Vapors can cause severe irritation of respiratory tract.

**SKIN:** Corrosive - Can cause burns to skin.

**EYE:** Vapors - Can cause irritation and burns to eyes.

**INGESTION:** Can cause severe damage to mouth and throat.

**HEALTH HAZARDS (ACUTE AND CHRONIC):**

**CARCINOGENICITY:**

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

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Skin contact may aggrevate existing dermatitis (skin condition). Over exposure to vapor or mist may aggrevate existing respiratory conditions such as asthma, bronchitis, or fibrotic respiratory disease.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** Flush immediately for 15 minutes with large amounts of potable water. DO NOT attempt to neutralize with chemical agents. Get immediate medical attention.

**SKIN:** Flush immediately for 15 minutes with potable water. DO NOT attempt to neutralize with chemical agents. Remove contaminated clothing. Launder before reuse. Discard contaminated shoes. Get medical attention if swelling and/or irritation occurs.

**INGESTION:** Give water to dilute stomach contents. DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

**INHALATION:** Remove to fresh air. Get medical attention if effects persist.

**OTHER INSTRUCTIONS:** Swallowing this corrosive material may result in severe ulceration, inflamation, and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this product during induced emesis can result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Control Center for additional treatment information.

## SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Avoid contact. Allow only personnel wearing goggles, neoprene or rubber gloves and protective clothing to clean up spill. In confined areas a full face respirator is recommended. Absorb spill with clay, diatomaceous earth or other absorbent material. Place in disposal containers.

**WASTE DISPOSAL METHOD:** Dispose of in approved incinerator or an approved landfill.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Avoid contact. Keep containers tightly closed when not in use. Do not remove labels from empty containers. If mixtures of Part B and Part A are allowed to remain in the mixing container past the pot life deadline, heat and a strong reaction will result.

**OTHER PRECAUTIONS:** none

## SECTION 8: CONTROL MEASURES

**RESPIRATORY PROTECTION:** If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self contained breathing equipment or a full face respirator.

**VENTILATION:** Mechanical ventilation required if TLV is expected to be exceeded in confined areas.

**PROTECTIVE GLOVES:** Neoprene or natural rubber gloves

**EYE PROTECTION:** Chemical goggles

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Body covering clothes

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

## SECTION 9: REGULATORY INFORMATION

**SARA TITLE III SECTION 313:** Unless shown below, this product does not contain chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

| CAS # | Chemical Name | Percent by Weight |
|---|---|---|
| | None | |

**PROP 65 (CARCINOGEN):** Unless shown below, this product does not contain chemicals known to the state of California to cause cancer.

| CAS # | Chemical Name | Percent by Weight |
|---|---|---|
| | None | |

**PROP 65 (TERATOGENIC):** Unless shown below, this product does not contain chemicals known to the state of California to cause birth defects or other reproductive harm.

| CAS # | Chemical Name | Percent by Weight |
|---|---|---|
| | None | |

**PROP 65 (CARCINOGENIC & TERATOGENIC):** Unless shown below, this product does not contain chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

| CAS # | Chemical Name | Percent by Weight |
|---|---|---|
| | None | |

**HAZARDOUS WASTE INFORMATION:** Unless shown below, this product is not a hazardous waste according to definitions found in CFR-40.

**STATE OF MICHIGAN CRITICAL MATERIALS:** Unless shown below, this product does not contain ingredients appearing on the State of Michigan Critical Materials List.

| CAS # | Chemical Name | Percent by Weight |
|---|---|---|
| | None | |

**D. O. T. PROPER SHIPPING NAME:** Caustic Alkali Liquid, N.O.S. (Aliphatic Amines); 8; UN1719; PG II

**PROPER SHIPPING NAME:** Caustic Alkali Liquid, N.O.S. (Aliphatic Amines)

**HAZARD CLASS:** Class 8, Corrosive

**UN/NA ID NUMBER:** UN 1719

**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.