

MATERIAL SAFETY DATA SHEET

KEY ACRYLIC POLYMER

PRODUCT NAME: KEY #810 ACRYLIC POLYMER
PRODUCT CODE: KEY-810

HMS CODES: H F R P
1 0 0 --

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: 04/06/06
INFORMATION NUMBER: 1-513-943-4225 NAME OF PREPARER: M. CAIN

SECTION 2: HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	WT %	CARCINOGEN
Acrylic Polymer	Not hazardous	None	None	25-40	NO
Individual Residual Monomers	Not required	NE	NE	<0.1	NO
Ammonia	1664-41-7	25 ppm	25 ppm	0.2 max	
Water	7732-18-5	None	None	52-54	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 RANGE : 212 °F
VAPOR DENSITY (AIR=1) : < 1
VAPOR PRESSURE : 17 mm/Hg @ 68°F
LIQUID DENSITY : Heavier than water
PERCENT VOLATILITY : 60-75% water
SOLUBILITY IN WATER : Dilutable
APPEARANCE AND ODOR : Milky white liquid with ammonia odor
SPECIFIC GRAVITY (H2O=1) : 1.0-1.2
EVAPORATION RATE (BAC=1) : < 1

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Noncombustible

FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: Not Applicable
UPPER: Not Applicable

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

OSHA FLAMMABILITY CLASSIFICATION: N/A

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material can splatter above 100C/212°F. Polymer film can burn.

SECTION 5: REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Avoid temperatures above 177C/350°F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

INCOMPATIBILITY (MATERIALS TO AVOID): There are no known material which are incompatible with this product.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal decomposition may yield acrylic monomers.

HAZARDOUS POLYMERIZATION: This product will not undergo polymerization.

SECTION 6: HEALTH HAZARD DATA

HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

EYES CONTACT: Direct contact with material can cause slight to the eyes.

SKIN CONTACT: Prolonged or repeated skin contact can cause slight irritation to the skin.

INHALATION: Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat, and lungs.

HEALTH HAZARDS (ACUTE AND CHRONIC):

CARCINOGENICITY: NTP CARCINOGEN: IARC MONOGRAPHS: OSHA REGULATED:

SECTION 6: HEALTH HAZARD DATA (CON'T)

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush eyes with large amounts of water for at least 15 minutes. Consult a physician if irritation persists.

SKIN: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

INGESTION: If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air.

TOXICITY DATA: The acute toxicity data for the most hazardous component of the mixture is shown below.

ORAL LD 50: (rat) >5000 mg/Kg

DERMAL LD 50: (rabbit) >5000 mg/Kg

SKIN IRRITATION: (rabbit) Practically non-irritating

EYE IRRITATION: (rabbit) Inconsequential irritation

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep spectators away. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

WASTE DISPOSAL METHOD: Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep from freezing; material may coagulate. The minimum recommended storage temperature for this material is 34°F. The maximum recommended storage temperature for this material is 120°F. Monomer vapors can be evolved when material is heated during processing operations. See **Section 8** for appropriate control measures.

OTHER PRECAUTIONS: Appropriate protective equipment must be worn when handling a spill of this material. See the personal protection measures section for recommendations. If exposed to material during clean-up operations, see the first aid procedures section for actions to follow.

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION: None required if airborne concentrations are maintained below the TWA/TLV's listed in **Section 2**. For airborne concentrations up to 10 times the TWA/TLV's listed, wear a MSHA/NIOSH approved half-mask, air purifying respirator. Air purifying respirators should be equipped with organic vapor cartridges.

VENTILATION: Use local exhaust ventilation with a minimum capture velocity of 100ft/min at the point of vapor evolution.

PROTECTIVE GLOVES: Chemical resistant gloves neoprene gloves

EYE PROTECTION: Use chemical splash goggles (ANSI Z87.1 or approved equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash station. Wear full length clothing to protect skin as much as possible.

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

SECTION 9: REGULATORY INFORMATION

D. O. T. PROPER SHIPPING NAME: Water based Solution, Non-hazardous

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HAZARD CLASS: Not Regulated

SUBSIDIARY RISK:

UN/NA ID NUMBER:

SARA TITLE III SECTION 313: This product contains no toxic 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:

SARA TITLE III SECTION 311/312: This product is not a hazardous chemical under 29 CFR 1910.1200, and therefore is not covered by Title III of SARA

CERCLA INFORMATION: Releases of this material to air, land, or water are not reportable to the national response center under the comprehensive environmental response, compensation, and liability act (CERCLA) or the state and local emergency planning committees under the superfund amendments and reauthorization act (SARA) Title III Section 304.

RCRA INFORMATION: When this product becomes a waste, it is classified as a non-hazardous waste under criteria of the resource conservation and recovery act (40 CFR 261).

CHEMICAL CONTROL LAW STATUS: All components of this product are listed or are excluded from listing on the US Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

STATE RIGHT-TO-KNOW LAWS: Any material listed as "not hazardous" in the CAS Number column of **Section 2** of this MSDS is trade secret under the provisions of the Pennsylvania Worker and Community Right-To-Know Act.

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.