

MATERIAL SAFETY DATA SHEET
KEY #633 EPOXY NOVOLAC COATING PART A

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PRODUCT CODE:

HMIS CODES: H F R P
2 1 0 C

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:** 03/28/06
INFORMATION NUMBER: 1-513-943-4225 **NAME OF PREPARER:** R. CAIN

SECTION 2: HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	WT %	VAPOR PRESS.
Epoxy Novolac Resin	Mixture	NE	NE	95-98	NE
Benzyl Alcohol	101-51-6	NE	NE	2-4	<1 mm Hg @ 68 deg. F

Depending on color, may contain:

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	WT %	CARCINOGEN
Titanium Dioxide	13463-67-7	NE	10 mg/m ³		NO
Carbon Black	1333-86-4	3.5 mg/m ³	3.5 mg/m ³		NO
Pigment Red	1309-37-1	6.0 mg/m ³	10 mg/m ³		NO
Manganite	1317-34-6	--	5 mg/m ³		NO
Pigment Yellow 75	52320-66-8	NE	NE		NO
Pigment Yellow 42	51274-00-1	NE	NE		NO
Ultramarine Blue	1319-97-1	NE	NE		NO
Pigment Yellow 53	8007-18-9	NE	NE		NO
Pigment Green 17	1308-38-9	0.5 mg/m ³	0.5 mg/m ³		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

**Not present as dry particulate

***Less than 2 ppm present as impurity

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE : Not applicable
VAPOR DENSITY : NE
VAPOR PRESSURE : NE
VOC : -0-
SOLUBILITY IN WATER : NIL
APPEARANCE : Moderately viscous liquid, color varies.
ODOR : Mild, no distinguishing characteristics
SPECIFIC GRAVITY (H2O=1) : Approx. 1.45
EVAPORATION RATE : Slower than ether

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >250° F

METHOD USED: PMCC

FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: NA
UPPER: NA

EXTINGUISHING MEDIA: Use foam, dry chemicals, CO₂. Decomposition and/or products of combustion may be toxic. Use self-contained breathing equipment.

OSHA FLAMMABILITY CLASSIFICATION: Class III B

SPECIAL FIRE FIGHTING PROCEDURES: Wear a 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: Pressure may build up in containers and create an explosion hazard.

SECTION 5: REACTIVITY DATA

STABILITY: Normally stable

CONDITIONS TO AVOID: Avoid contact with strong oxidizing agents, strong acids, strong bases.

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

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

HAZARDOUS POLYMERIZATION: Mixing large quantities (1 gallon) with amines or epoxy hardeners can cause heat build up and hazardous reaction

SECTION 6: HEALTH HAZARD DATA

HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

INHALATION: Exposure to vapors at elevated temperatures may cause irritation to respiratory tract and difficult breathing.

SKIN: A single exposure is unlikely to result in harm. Repeated exposure can cause sensitization.

EYE: May cause irritation.

INGESTION: Oral toxicity is low. No hazards expected from normal industrial exposure.

HEALTH HAZARDS (ACUTE & CHRONIC):

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

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush at once with potable water for at least 15 minutes

SKIN: Wash with soap and warm water. Remove contaminated clothes. Wash before reuse. Destroy contaminated shoes.

INGESTION: Not likely to occur in normal handling. Give large quantities of water and get medical attention.

INHALATION: Remove to fresh air. Administer oxygen if breathing is difficult.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

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

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Use with good ventilation. Store in cool dry area. Keep containers tightly closed when not in use. If mixture A & B are allowed to remain in the mixing vessel past the pot life deadline, heat and a strong reaction will result. Grinding or other abrasive action to cured film may develop microcrystalline silica dust. Wear a dust mask during such operations.

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

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION: Avoid breathing vapors mist or spray.

VENTILATION: Use with good ventilation

PROTECTIVE GLOVES: Neoprene or rubber

EYE PROTECTION: Chemical splash goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Provide eye wash fountain and safety shower.

WORK/HYGIENIC PRACTICES: Wash hands thoroughly after use, before eating or smoking.

SECTION 9: REGULATORY INFORMATION

D. O. T. PROPER SHIPPING NAME: Synthetic Resin Liquid

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HAZARD CLASS: non-hazardous

UN/NA ID NUMBER:

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.