

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KEY #401 ALIPHATIC TOPCOAT
PRODUCT CODE: KR-401-000

HMIS CODES: H F R P
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SECTION 1: MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: KEY RESIN COMPANY
ADDRESS: 4050 Clough Woods Drive
Batavia, Ohio 45103
EMERGENCY NUMBER: 1-800-424-9300 **DATE PRINTED:** 08/26/09
INFORMATION NUMBER: 1-513-943-4225 **PREPARER:** R. CAIN

SECTION 2: HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	WT %	CARCINOGEN
Dicyclohexylmethane-4,4'					
Diisocyanate	5124-30-1	NE	NE	15-25	NO
Aromatic Hydrocarbons	64742-95-6	NE	100 ppm	25-35	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 Not determined
VAPOR DENSITY > Air
VAPOR PRESSURE 1 mm Hg @ 200° F
VOC ± 35%
SOLUBILITY IN WATER None
APPEARANCE AND ODOR Moderately viscous pigmented liquid with a mild odor
SPECIFIC GRAVITY (H20=1) 1.13

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 110°F
METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME **LOWER:** Not determined
UPPER: Not determined
EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam
SPECIAL FIRE FIGHTING PROCEDURES: At higher temperature, vapors can cause pressure build-up in sealed containers. Use water to cool containers exposed to fire. Vapors generated from fire can be irritating and possible toxic. Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding is not recommended.

SECTION 5: REACTIVITY DATA

STABILITY: Avoid contact with moisture; reacts evolving CO2. Avoid temperatures recommended storage. Not sensitive to mechanical impact.
INCOMPATIBILITY (MATERIALS TO AVOID): Avoid strong oxidizing and reducing agents, strong acids and bases, peroxides, and amines. Not sensitive to mechanical impact. Electrical grounding is not recommended.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen, TDI, traces of hydrogen cyanide, oxides of nitrogen, and various hydrocarbons from incomplete combustion.
HAZARDOUS POLYMERIZATION: Will not occur when handled per instructions.

SECTION 6: HEALTH HAZARD DATA

HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

INHALATION: Vapors can be irritating to nose and mucus membranes.

Exposures may result tightness or burning in chest, coughing, headaches, and fatigue. Respiratory sensitivity may result in asthma-like symptoms and on subsequent exposure even below TLV.

SKIN: Contact may cause moderate skin irritation. In some individuals exposure may result in allergic type symptoms causing rash, itching, and hives.

EYE: Contact can cause severe irritation, redness, tearing, and blurred vision.

SKIN ABSORPTION: No known information available.

INGESTION: Intake can cause gastrointestinal irritation, nausea, vomiting, diarrhea, and headache.

HEALTH HAZARDS (CHRONIC): One scientific study of workers reported that exposure of isocyanates type chemicals resulted in larger declines in lung function compared to other workers.

Materials are not known mutagenic, teratogenic, reproductive health hazards.

CARCINOGENICITY:

NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
Product does not contain carcinogenic materials as defined by OSHA Hazardous Communications Act 1910.1200.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush eyes with plenty of water lifting upper and lower lids for at least 15 minutes. Call a physician.

SKIN: Wash promptly with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse.

INGESTION: Do NOT induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area, eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill; cover spill with absorbent material; remove container. Wash down area with dilute ammonium hydroxide or detergent solution, allow 10 minutes to react.

WASTE DISPOSAL METHOD: Handle disposal of waste material in manner which complies with local, state, province, and federal regulation. Incineration or dispose at agency approved waste-disposal facilities.

SECTION 8: CONTROL MEASURES

VENTILATION: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build-up of heavy vapors.

RESPIRATORY PROTECTION: Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA. Use NIOSH/OSHA approved respirators equipped with an organic vapor cartridge for listed hazard. Confined spaces, rooms, or tanks are areas for concern for TLV's is especially important. Reference OSHA Regulation CFR 29 1910.134 for recommended respiratory protection.

PROTECTIVE GLOVES: Rubber/latex gloves

EYE PROTECTION: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK/HYGIENIC PRACTICES: Eye wash facility and safety shower recommended.

SECTION 9: REGULATORY INFORMATION

SARA TITLE III SECTION 302: CASRN 1330-20-7 RQ: 1000 lbs.

SARA TITLE III SECTION 311/312: **Health hazard:** Immediate
Delayed

Physical hazard: Reactive

SARA TITLE III SECTION 313: Unless shown below, this product does not contain the following 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:

CAS #	Chemical Name	Percent by Weight
95-63-6	Trimethylbenzene	<7%
1330-20-7	Xylene	<3%

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
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DOT. PROPER SHIPPING NAME: This product is not regulated by DOT in containers of 119 gallon capacity or less.

PROPER SHIPPING NAME: Flammable Liquids, NOS (Petroleum Distillate)

HAZARD CLASS: 3

UN/NA ID NUMBER: UN-1993

PACKING GROUP III

DOT REPORTABLE QUANTITY: 33,000 lbs

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.