

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME:

KEMKO® 104 UW Putty, Part A

Chemical Family: Epoxy resin, filler mixture.

2. HAZARDOUS INGREDIENTS

NAME	CAS No.	TLV	STEL	PEL	CONTENT
Epoxy resin	25068-38-6	none	none	none	35-45%
Triphenylphosphate	101-02-0	none	none	none	3-6%
Oxirane (chloromethyl)	106-89-8	2ppm	5ppm	none	<2ppm

reference section 7, Health Hazard Data for LD (50)

3. PHYSICAL DATA:

Boiling Point (C):	> 100	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	Negligible	Solubility in Water:	Minimal
Freezing Point	N/D	Specific Gravity:	1.3
Vapor Pressure @ 20C:	N/D	pH:	N/D
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Mild
Appearance	Straw Paste		

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating: 1 - (Slight Hazard)

Flash Point:	> 250 F (PMCC)
Auto Ignition Temperature:	N/D
Limits of Flammability:	LEL: Not applicable UEL: Not applicable

EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG

SPECIAL FIRE & UNUSUAL HAZARDS: Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding not recommended.

5. REACTIVITY DATA:

HMIS Reactivity Rating: 1 - (Slight Hazard)

STABILITY: This product requires another component to react at room temperature. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.

INCOMPATIBILITY: Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, aldehydes, various hydrocarbons from incomplete combustion.

HAZARDOUS POLYMERIZATION: May occur is product is not handled per instructions.

6. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS AND LEAKS: Wear appropriate protective gear. Contain leak/spill. Salvage. Clean up residue with absorbent material.

WASTE DISPOSAL METHOD: Handle disposal of waste material in manner which complies with local, state, province, and federal regulations. Landfill if solidified or incinerate at agency approved waste-disposal facility.

7. HEALTH HAZARD DATA:

HMIS Health Rating: 2 - (Moderate Hazard)

Primary Route Of Entry: Dermal.

Effects of Overexposure:

Skin Contact:	Prolonged or repeated exposure may cause skin irritation and redness. Skin sensitization or allergic reaction may occur in some individuals. Dermal LD (50) (rabbit) CAS 101-020, >200mg/kg.
Inhalation:	May be irritating to respiratory tract. LC (50) (rat), >2mg/l
Ingestion:	Low oral toxicity. LD (50) CAS 25068-38-6 LD(50) (rat), 5g/kg; CAS 102-02-0 LD(50) (rat), 1.6g/kg 11.4 g/kg (rat)
Chronic:	None known

8: FIRST AID:

Inhalation:	Remove victim from exposure. If difficulty with breathing; administer oxygen and seek immediate medical assistance.
Eyes:	Flush with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
Skin:	Remove contaminated clothing. Wash with soap and water; get medical attention if irritation persists.
Ingestion:	Do not give liquid if victim is unconscious or very drowsy, otherwise, give no more than two glasses of milk or water and induce vomiting by two tablespoons Syrup of Ipecac or by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Seek medical attention.

9. SPECIAL PROTECTION INFORMATION:

HMIS Personal Protection Rating: C (Safety Glasses, Gloves, Apron)

Ventilation	Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to prevent build-up of heavy vapors.
Personal Protection:	Use eye protection. Selection of specific items such as gloves, boots and apron will depend on the operation. Wear respiratory protection. Whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for the listed hazard. Confined spaces, rooms or tanks are areas where concern for TLV's is especially important. Reference OSHA Reg. CFR 20 1910.134 for recommended protection.

10. ADDITIONAL INFORMATION:

DOT Proper Shipping Name:	Epoxy resin mixture
DOT Hazard Class or Division:	Not regulated
Identification Number:	N/A
Packing Group:	N/A
Labels Required:	N/A
WHMIS Classification:	Class D, Div. 2.
WHMIS Labeling:	Stylized T
Storage Conditions:	Keep containers tightly sealed. Store in dry and cool areas. Avoid freezing conditions.
Shelf life:	Indefinite.
Special Instructions:	Storage recommendations: Store at room temperature. Do not allow to freeze.

The information given herein is given in good faith. No warranty, expressed or implied, is made regarding the accuracy of these data or the results obtained from the use thereof. All materials may present unknown health hazards and must be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Consult ChemCo Systems Inc. for further information.

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