

MATERIAL SAFETY DATA SHEET
ChemCo Systems, Inc., 2800 Bay Road, Redwood City, CA 94063
Prepared by Dept. of Safety, Phone: 650/261-3790
24 Hour Emergency Phone: 800/424-9300 CHEMTREC

1. PRODUCT NAME:

KEMKO® 047, LoMod Binder, Part A

Chemical Family: Epoxy resin mixture

2. HAZARDOUS INGREDIENTS

NAME	CAS No.	TLV	STEL	PEL	CONTENT
Epoxy resin	25068-38-6	none	none	none	65-70%
Epoxy resin (CGE)	2210-79-9	none	none	none	15-20%

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

3. PHYSICAL DATA:

Boiling Point:	>200 F	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	Slight	Solubility in Water:	Minimal
Freezing Point	N/D	Specific Gravity:	1.09
Vapor Pressure @ 20C:	N/D	pH:	N/D
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Slight
Appearance	Amber liquid		
	N/D = Not Determined		

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Hazard rating:	1 - (Slight Hazard)
Flash Point:	>205 F (TCC)
Auto Ignition Temperature:	N/D
Limits of Flammability:	LEL: N/D UEL: N/D

EXTINGUISHING MEDIA:

CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG

SPECIAL FIRE & UNUSUAL HAZARDS:

At high temperatures vapors can cause pressure build-up in sealed containers. Use water to cool containers exposed to fire. Self-contained respirator equipment and full protective clothing are required when smoke and fumes are generated. Electrical grounding is not recommended.

5. REACTIVITY DATA:

HMIS Reactivity Rating: 0 - (Least Hazard)

STABILITY: This product must be mixed and used in accordance with directions for safety. 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: Ventilate area. Eliminate all sources of ignition. 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 Hazard 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.

Skin Absorption: LD (50) 25068-38-6 >20 ml/kg (rabbit)
LD (50) 2210-79-9 >2 ml/kg (rabbit)

Inhalation: Vapors may cause severe irritation

Ingestion:

Intake can cause gastro-intestinal irritation, nausea, vomiting and diarrhea.
LD(50) 25068-38-6 11.4 g/kg (rat);
LD(50) 2210-79-9 >5 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:

Wash with soap and water; get medical attention if irritation persists.

Ingestion:

Do not induce vomiting. Give at least two glasses of water. Get immediate medical attention. If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration of liquid into lungs. Do not give anything by mouth to an unconscious person.

9. SPECIAL PROTECTION INFORMATION:

Ventilation:

Ventilation is recommended to avoid build-up of heavy vapors.

Personal Protection:

Use chemical goggles. Selection of specific items such as gloves, boots and apron will depend on the operation. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA. Use NIOSH approved respirators for listed hazard. Confined spaces, rooms or tanks are areas where concern for TLV's is especially important. Reference OSHA Regulation CFR 29 1910.134 for recommended respiratory 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, Division 2, Sub. B.

WHMIS Labeling

Stylized T

Storage Conditions:

Keep containers tightly sealed. Store in dry and cool areas.

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.

MSDS047A 7/99