

MATERIAL SAFETY DATA SHEET

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Prepared by Dept. of Safety, Phone: 650/261-3790

24-Hour Emergency Phone: 800/424-9300 CHEMTREC**1. PRODUCT NAME:****Kemko 513, Chem/Rad Resistant Paste, Part B**

Chemical Family: Polyamines, fillers.

2. HAZARDOUS INGREDIENTS

NAME	CAS No.	TLV	STEL	PEL	CONTENT
Diethyl toluene diamine (DETDA)	68479-98-1	none	none	none	45-55%
Salicylic Acid	69-72-7	none	none	none	20-25%
Benzyl alcohol (BA)	100-51-6	none	none	none	15-25%
o-sec. Butyl phenol (OSBP)	89-72-5	5ppm*	none	5ppm*	5-10%

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

3. PHYSICAL DATA:

Boiling Point:	205 C (BA)	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	<1.0%	Solubility in Water:	partial
Freezing Point	N/D	Specific Gravity:	0.99
Vapor Pressure @ 20C:	<1mm	pH:	basic
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold Appearance	N/D Amber paste	Odor	Ammoniacal

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating:	1 - (Slight Hazard)	
Flash Point:	210 F (BA)	
Auto Ignition Temperature:	N/D	
Limits of Flammability:	LEL: N/D	UEL: N/D
EXTINGUISHING MEDIA:		
CARBON DIOXIDE, FOAM, DRY CHEMICAL & WATER FOG		
SPECIAL FIRE & UNUSUAL HAZARDS: 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: Stable. This product must be mixed with another component to react. Not sensitive to mechanical impact.	
INCOMPATIBILITY: Strong oxidizing agents, acids, epoxy resins, isocyanates and organic peroxides may result in violent explosive reactions.	
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides, aldehydes and various hydrocarbons from incomplete combustion.	
HAZARDOUS POLYMERIZATION: Will not occur unless product is mixed with epoxy resins, isocyanates or urethane prepolymers.	

6. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS AND LEAKS: Ventilate area. Wear appropriate protective gear. Contain leak/spill. Clean up residue with absorbent material. Wash down area with water and diluted acetic acid.
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:	3 - (Serious Hazard)
Primary Route Of Entry:	Dermal, Inhalation
Effects of Overexposure:	
Inhalation:	Due to low vapor pressure of this product, fumes will be minimal below 75 F. At higher temperatures, fumes will be irritating.
Eyes:	Contact can cause severe burns and irreversible damage, irritation, redness, tearing or blurred vision.
Skin Contact:	Short single exposure may cause moderate irritation to mild burn. Prolonged or repeated exposure may cause a severe burn. May result in an allergic reaction or sensitization response in some individuals.
Skin Absorption:	(DETDA) and (OSBP) may be absorbed through the skin to increase overall toxicity. LD 50 CAS 68479-98-1 700 mg/kg (rabbit) LD 50 CAS 89-72-5 5.5 g/kg (rabbit)
Ingestion:	Intake can cause gastro-intestinal irritation, nausea, vomiting, diarrhea, headache and drowsiness. Can result in burns of mouth esophagus and stomach. Moderately toxic. LD (50) CAS 68479-98-1 485 mg/kg (rat) LD (50) CAS 89-72-5 340 mg/kg (rat) LD (50) CAS 100-51-6 890 mg/kg (rat)
Chronic:	None known.

8: FIRST AID:

Eyes:	Flush eyes with water and/or 1% boric acid, lifting upper and lower lids occasionally for 30 minutes. Seek prompt medical attention.
Skin:	Wash with soap and water for at least 15 minutes. Remove contaminated clothing and wash before re-use. Destroy contaminated leather. Seek medical attention if irritation persists.
Ingestion:	Do not induce vomiting. Give large quantities of water or vinegar diluted with 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:	Remove victim from exposure. If difficulty with breathing; administer oxygen and seek immediate medical assistance.

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 avoid the build up of heavy vapors.
Personal Protection:	Use eye protection and gloves. 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:	Alkylphenols, liquid, n.o.s. (o-sec-butylphenol mixture).
DOT Hazard Class or Division:	8
Identification Number:	UN 3145
Packing group:	III
Labels Required:	Corrosive
WHMIS Classification:	Class E
WHMIS Labeling:	Test tube/hand
Shelf life:	18 months
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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