

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME:
KEMKO 019, LoTempSEAL, Part B
Chemical Family: Polyamines

2. HAZARDOUS INGREDIENTS

NAME	CAS No.	TLV	STEL	PEL	CONTENT
Diethylenetriamine (DETA)	111-40-0	none	none	none	10-30%
O-sec-butylphenol (OSBP)	89-72-5	5ppm	none	none	15-25%
Methylenebis(cyclohexanamine, 4,4'-)	100-51-6	none	none	none	5-15%
METHYLPENTAMETHYLENEDIAMINE	15520-10-2	none	none	none	2-5%

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

3. PHYSICAL DATA:

Boiling Point:	N/D	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	< 1%	Solubility in Water:	partial
Freezing Point	N/D	Specific Gravity:	1.0
Vapor Pressure @ 20C:	< 1mm Hg	pH:	alkaline
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Ammoniacal
Appearance	Black liquid		

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating:	1 - (Slight Hazard)		
Flash Point:	210 F (BA) TCC		
Auto Ignition Temperature:	N/D		
Limits of Flammability:	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, isocyanates and organic peroxides may result in violent explosive reactions.			
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides and various hydrocarbons from incomplete combustion.			
HAZARDOUS POLYMERIZATION: Will not occur.			

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. Prevent washings from entering waterways.
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, inhalation.		
Effects of Overexposure:			
Inhalation:	Due to low vapor pressure of this product, fumes will be minimal below 25 C. 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	OSBP and DETA are absorbed through the skin. LD (50) 89-72-5 5.5g/kg (rabbit) LD (50) 111-40-0 1.1g/kg (rabbit)		
Ingestion:	Intake can cause gastrointestinal irritation, nausea, vomiting, diarrhea, headache and drowsiness. Can result in burns of mouth esophagus and stomach. Moderately toxic. LD (50) CAS 89-72-5 340 mg/kg (rat) LD (50) CAS 100-51-6 890 mg/kg (rat) LD (50) CAS 111-40-0 1.1 g/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 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:	AMINES, Corrosive Liquid, N.O.S. (Diethylenetriamine)
DOT Hazard Class or Division:	8
Identification Number:	UN2735
Packing group:	II
Labels Required:	CORROSIVE
WHMIS Classification:	Class D, Div. 2, Sub. A&B; Class E.
WHMIS Labeling:	Stylized T, Test tube-hand.
Storage Conditions:	Keep containers tightly sealed; store in cool and dry area. Avoid freezing conditions.
Shelf life:	18 months.
Special Instructions:	None.