#### **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 (202-483-7616) CHEMTREC

#### 1. PRODUCT NAME:

## KEMKO® A-1 for Asphalt, 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	75-85%
Terpineol (Terp.)	8002-09-3	none	none	none	15-25%

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

## 3. PHYSICAL DATA:

Boiling Point:	>206 F	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	N/D	Solubility in Water:	N/D
Freezing Point	N/D	Specific Gravity:	1.1
Vapor Pressure @ 20C:	<1 mm Hg	pH:	N/D
Vapor Density	N/D	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Mild
Appearance	Amber liquid		

#### N/D = Not Determined

### 4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating:	2 - (M	oderate Hazard)
Flash Point:	78 C Tag C	C C
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		

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: 1 - (Slight Hazard)

STABILITY: This product must be mixed with another component to react. Avoid excessive heat. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.

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

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

HAZARDOUS POLYMERIZATION: May occur if 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:

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HMIS F	lealth Rating:	2 - (Moderate Hazard)		
Primary	Route Of Entry:	Dermal		
	Effects of Overexposure:			
Skin Contact:		ed exposure may cause skin s. Skin sensitization or allergic some individuals.		
Inhalation:		rmation on inhalation of vapors. es fumes may be irritating and		
Ingestion:	Low oral toxicity. Epoxy LD(50) 11.4 Terpineol oral LD 50 (			
Chronic:	sensitization or othe	ted overexposure may cause r allergic reactions. Preexisting ers may be aggrevated by this		

#### 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 give liquid if victim is unconscious or very drowsy. Otherwise, give no more than two glasses of water or milk and induce vomiting by administering 2 tablespoons of ipecac syrup 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:

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<b>HMIS Person</b>	HMIS Personal Protection Rating: C (Safety Glasses, Gloves, Apron)		
Ventilation	Ventilation is recommended to avoid build-up of heavy vapors.		
Personal Protection:	Use chemical goggles. Selection of specific Protection: items such as gloves, boots and apron will depend on operation. Wear respiratory 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	e: Epoxy resin mixture
DOT Hazard Class or Divisi	
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:	18 Months, minimum
	Storage recommendations: Store at room emperature. 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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