

Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard.
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupation Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List)		Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.	
KL1050 Powder Membrane Cleaner			
Section I			
Manufacturer's Name		Emergency Telephone Number	
King Lee Technologies		1-800-424-9300 (Chemtrec)	
Address (Number, Street, City, State and ZIP Code)		Telephone Number for Information	
8949 Kenamar Drive Bldg. 107		(858) 693-4062	
San Diego, CA 92121		Date Prepared	
		September 1, 2001	
		Signature of Preparer (Optional)	

Section II - Hazardous Ingredients/Identity Information

Other Limits

Hazardous Components (Specific Chemical Identity: Common Name(s)) OSHA PEL ACGIH TLV Recommended % (optional)

This product is a proprietary formulation of generally available chemical ingredients.

Complying with 29 CFR 1910.1200 (d), each ingredient in this formulation has been reviewed with the "Guide to Occupational Exposure Values - 1995" published by ACGIH. Only the following ingredients have listed occupational exposure values, and can be considered potentially hazardous:

	OSHA-PEL	ACGIH-TLV
Ammonium Bifluoride (CAS#1341-49-7)	2.5 mg/M ³ as F, 35 ppm as NH ₃ ,	2.5 mg/M ³ as F 25 ppm as NH ₃

Section III - Physical/Chemical Characteristics Powder (NA= Not Applicable)

Boiling Point	NA	Specific Gravity (H ₂ O=1)	NA
Vapor Pressure (mm Hg.)	NA	Melting Point	>125°C
Vapor Density (AIR= 1)	NA	Evaporation Rate (Butyl Acetate= 1)	NA

Solubility in Water

Completely Soluble

Appearance and Odor

Colorless to slightly tan powder with slight odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	(Flammable Limits)	LEL	LEL
Not Flammable	Not Flammable	NA	NA

Extinguishing Media

No Restrictions

Special Fire Fighting Procedures

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards

None known.

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid Avoid moisture, heat and direct sun.
	Stable	X	

Incompatibility (*Materials to Avoid*)

Glass, acid-sensitive chemicals.

Hazardous Decomposition or Byproducts

Sulfur oxides and hydrogen fluoride.

Hazardous Polymerization	May Occur		Conditions to Avoid NA
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
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Health Hazards (*Acute and Chronic*) Eye Contact: May cause burns.

Skin Contact: May cause severe irritation.

Ingestion: May cause nausea, vomiting and diarrhea.

Inhalation: May cause irritation of mucous membranes of nose and airways.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure

Irritation and burning of eyes, skin, or respiratory tract.

Medical Conditions

Generally Aggravated by Exposure Asthma, Exposed wounds.

Emergency and First Aid Procedures

Eyes and skin - flush eyes with excess water for at least 15 minutes. Wash from skin with soap and water.

Inhaled - Remove subject to fresh air. Ingestion- rinse mouth and throat. Drink water or milk.

In all cases, call or see a physician.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Sweep up spilled material. Flush ground or surfaces with water.

Waste Disposal Method

Follow normal chemical waste disposal procedure either as a powder or dissolved in water and dispose as liquid.

Precautions to Be Taken in Handling and Storing

Store in cool dry location away from sunlight.

Other Precautions

Avoid dust and contact. Wear protective equipment if possible.

Section VIII - Control Measures

Respiratory Protection (*Specific Type*)

Use NIOSH approved respirator if conditions warrant.

Ventilation	Local Exhaust Use in well ventilated areas.	Special
	Mechanical (<i>General</i>)	Other

Protective Gloves

Water impenetrable gloves that can be washed

Eye Protection

Chemical safety goggles recommendable

Other Protective Clothing or Equipment

Work overalls would prevent contamination of street clothes.

Work/Hygienic Practices

Wash gloves and hands before touching anything else.