

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)	
<b>KL 2000</b>	
<b>Powder Membrane Cleaner</b>	
<b>Section I</b>	
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
	April 12, 2011
	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:

	OSHA-PEL	ACGIH-TLV	NIOSH-RELs
Borates, Tetrasodium Salts	10 mg/M <sup>3</sup>	5mg/M <sup>3</sup>	5mg/M <sup>3</sup>
Decahydrate (CAS 1303-96-4)			

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

Boiling Point	NA	Specific Gravity (H <sub>2</sub> O=1)	NA
Vapor Pressure (mm Hg.)	NA	Melting Point	>100°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*)

Acids (produces carbon dioxide gas).

## Hazardous Decomposition or Byproducts

No known hazardous products.

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: Prolonged contact may cause irritation.

Ingestion: May cause gastrointestinal irritation

Inhalation: May cause irritation of 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.

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**Section IX - Transportation Information**

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DOT Hazardous Classification -

Not considered hazardous by the U.S. Department of Transportation (DOT)

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TDG Canadian Transportation -

Not considered hazardous under Transportation of Dangerous Goods (TDG)

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International Transportation -

Products has no UN number, and is not regulated under international rail, road, water or air transport regulations.

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**Section X - Ecological Information**

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This powder cleaner is water soluble to give a mildly alkaline non-toxic solution.

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**Section XI - Regulatory Information**

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This product is certified under ANSI-NSF Standard 60 for the production of drinking water with reverse osmosis membranes as off-line cleaner. Ratings under Hazardous Materials Identification System (H.M.I.S.):

Health=2; F=0; R=0; P=0.

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**Section XII - Other Information**

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