

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

Powder Membrane Cleaner Section 1 - Identification    Emergency Telephone Number   Emergency Telephone Number   Improvement   Im		irements.		OMB No. 121	0-007Z				
Information is available, the space must be marked to indicate that:	IDENTITY (As Used on Label and Lis	st)	N	ote: Blank spaces are not per	mitted. If any i	tem is not applic	able or no		
Manufacturer's Name  King Lee Technologies  1-800-424-9300 (Chemtrec)  1-800-424-9300 (Chemtrec)  1-800-424-9300 (Chemtrec)  8949 Kenamar Drive Bldg, 107  8949 Kenamar Drive Bldg, 107  8959-34062  San Diego, California 92121  Date Prepared  July 1, 2015  Signature of Preparer (Optional)  Section 2 - Hazard(s) identification  Other Umits  Hazardous Components (Specific Chemical Identity: Common Name(s)) OSHA PEL ACGIH TLV  ACGIH-TLV  AMMONIUM BIFLOURIDE (CAS#1341-49-7)  Warning  None Known.  None  Section 3 - Composition/Information ingredients  Causes skin irritation.  Warning  None Known.  None  Section 3 - Composition/Information ingredients  Complying with 29 CFR 1910.1200 (d), each ingredient in this formulation has been reviewed with the "Guide to Occupational exposure values, and can be considered potentially hazardous:  OSHA-PEL  ACGIH-TLV  AMMONIUM BIFLOURIDE (CAS#1341-49-7)  2.5mg/M³ as F.  2.5 mg/M³ as F.  35 ppm as NH <sub>3</sub> .  25 PPM as NH <sub>3</sub> .  Label elements  Warning  None Known.  None.  Causes skin irritation.  Causes ski	KL 1050								
Manufacturer's Name King Lee Technologies Address (Number, Street, City, State and 2IP Code) 8949 Kenamar Drive Bldg, 107 San Diego, California 92121  Telephone Number for Information (858) 693-4062  Date Prepared July 1, 2015 Signature of Preparer (Optional)  Section 2 - Hazard(s) Identification  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, and can be considered potentially hazardous:  OSHA-PEL  AMMONIUM BIFLOURIDE (CAS#1341-49-7)  Warning  None Known.  None.  Causes skin irritation.	Powder Membrane Cleans	er							
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8949 Kenamar Drive Bldg. 107 San Diego, California 92121  Date Prepared July 1, 2015 Signature of Preparer (Optional)  Section 2 - Hazard(s) Identification  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 - 2012" published by ACGIH. Only the following ingredients have listed occupational exposure values, and can be considered potentially hazardous:  OSHA-PEL ACGIH-TLV  AMMONIUM BIFLOURIDE (CAS#1341-49-7)  AMMONIUM BIFLOURIDE (CAS#1341-49-7)  Warning None Known.  None.  Causes skin irritation.  Causes skin irrita				800-424-9300 (Cher	ntrec)	001-703-527	7-3887 (Chemtrec)		
San Diego, California 92121    Date Prepared   July 1, 2015   Signature of Preparer (Optional)			Code) Te	elephone Number for Inform	ation				
July 1, 2015	8949 Kenamar Drive F	(8	858) 693-4062						
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Abel elements  Signal Word  Hazard(s) not otherwise classified (HNOC)  Warning  None Known.  None.  Causes skin irritation. Causes skin irritation. Causes serious eye damage.  Causes skin irritation. Causes serious eye damage.  Section 3 - Composition/information on ingredients  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 - 2012" published by ACGIH. Only the following ingredients have listed occupational exposure values, and can be considered potentially hazardous:  OSHA-PEL  ACGIH-TLV  AMMONIUM BIFLOURIDE (CAS#1341-49-7)  2.5mg/M³ as F, 2.5 mg/M³ as F  35 ppm as NH₃, 25 PPM as NH₃  Section 4, First-aid measures  Route(s) of Entry: Inhalation?  Skin? Ingestion?  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:  NO  NO  NO	A B A B A C B I I I B A B I E I C I I I	NDE /CAC''4	244 40 7\		· E				
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None Known.  None.  Causes skin irritation. Causes serious eye damage.  Causes serious eye damage.  None.  Causes skin irritation. Causes serious eye damage.  Causes skin irritation. Causes serious eye damage.  Causes skin irritation. Causes serious eye damage.  **Cause mended				35 ppm as I	lΗ <sub>3</sub> ,	25 PPM as I	NH <sub>3</sub>		
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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 - 2012" published by ACGIH. Only the following ingredients have listed occupational exposure values, and can be considered potentially hazardous:  OSHA-PEL ACGIH-TLV  AMMONIUM BIFLOURIDE (CAS#1341-49-7) 2.5mg/M³ as F, 2.5 mg/M³ as F  35 ppm as NH₃, 25 PPM as NH₃  Section 4, First-aid measures  Route(s) of Entry: Inhalation? Skin? Ingestion?  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 NO	Label elements								
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		KL 1050				
Medical Condit Generally Aggra	ions avated by Exposure	Asthma, ex	kposed wou	nds.		
Emergency and	First Aid Procedures					
Eyes and sl	kin - flush eyes with exc	cess water for 15 min.	Wash from	skin with s	soap and wat	ter. Inhaled - Remove
subject to f	fresh air. Ingestion - rin	se mouth and throat. I	Drink water	or milk. In	all cases, ca	ll or see a physician.
Section 5 - Fire	-fighting measures					
Flash Point (Me <b>No</b>	ethod Used) t Flammable	(Flammable Limits) Not Flammable		LEL NA		LEL NA
Extinguishing N	<sup>1edia</sup> No Restrict	ions				
Special Fire Figl	· ·	posed to products of c ned breathing apparatu				
Unusual Fire an	d Explosion Hazards None know	/n.				
Section 6 - Acci	idental release measures					
•	en in Case Material is Released spilled materials. Flush		th water.			
	Method mal chemical waste dis id disposed as a liquid.	sposal procedure eithe	r as a powd	er or disso	lved	
Section 7 - Han	dling and Storage					
Precautions to	Be Taken in Handling and Storir	ng				
	Store in cool lo	cation away from sunli	ight.			
Other Precaution		contact. Wear protect	tive equipm	ent if poss	ible.	
Respiratory Pro	tection (Specific Type) Use NIOSH app	proved respirator if cor	nditions wa	rrant.		
Ventilation Local Exhaust  Use in well-ventilated areas.			Special			
	Mechanical (General) NA	A	Other	N	NA	
Section 8 - Exp	osure controls/personal protec	ction				
Protective Gloves  Water impenetrable gloves that can be washed.  Eye Protection  Chemical safety goggles recommendable.						
	e Clothing or Equipment alls would prevent con	tamination of street clo	othes.			
Work/Hygienic	Practices					
Wash glove	es and hands before to	uching anything else.				
	sical and chemical properties					
Boiling Point		NA	Specific Gravity	/ (H <sub>2</sub> 0=1)		NA
Vapor Pressure	(mm Hg.)	NA	Melting Point			>125°C

Solubility in Water

Vapor Density (AIR= 1)

Completely Soluble.

NA

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**Evaporation Rate** 

(Butyl Acetate= 1)

NA

Appearance and Odor

Colorless to slightly tan powder with slight odor.

#### Section 10 - Stability and reactivity Stability Unstable Conditions to Avoid Avoid moisture, heat and direct sun. Stable Х

Incompatibility (Materials to Avoid)

Glass, and acid-sensitive chemicals.

Hazardous Decomposition or Byproducts

Sulfur oxides and hydrogen fluoride.

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

#### Section 11 - Toxicological information

Poses no acute toxicological properties that would require special handling, other than good hygienic practices.

#### Section I2 - Ecological Information

This powder cleaner is water soluble to give a mildly acidic solution. In natural waters and soil, it will be neutralized to harmless fluoride and other salts.

#### Section 13 - Disposal considerations

Poses no acute toxicological properties that would require special handling, other than good hygienic practices.

### Section 14 - Transportation information

DOT Hazardous Classification-

Classification for this product as corrosive material is given as follows:

Corrosive Solid, Acidic, Inorganic, N.O.S. (Contains Ammonium Hydrogen Difluoride) 8, UN3260, III

TDG Canadian Transportation-

Classification for this product as corrosive material is given as follows:

Corrosive Solid, Acidic, Inorganic, N.O.S. (Contains Ammonium Hydrogen Difluoride) 8, UN3260, III

International Transportation-

Classification for this product as corrosive material is given as follows:

Corrosive Solid, Acidic, Inorganic, N.O.S. (Contains Ammonium Hydrogen Difluoride) 8, UN3260, III

# Section 15 - Regulatory Information

This product is certified under ANSI-NSF Standard 60 for the production of drinking water with reverse osmosis membranes as offline cleaners.

HMIS: Health=3 Fire=0 Reactivity=0 P=None

### Section 16 - Other Information

This SDS is provided as an information resource only. The buyer assumes all responsibility for using and handling the product. In accordance with applicable federal, state and local regulations.

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