

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.	
<b>Pretreat Plus™ 0100</b> <b>Antiscalant</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	
		September 1, 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 - 2005" published by ACGIH. None of the ingredients have listed occupational exposure values, and can be considered generally safe if handled with due care a mild solution of the following acids:			
Phosphorous Acid CAS No. 2809-21-4, and related phosphonic acids.			

**Section III - Physical/Chemical Characteristics** H<sub>2</sub>O Solution (NA= Not Applicable)

Boiling Point	> 100 <sup>0</sup> C	Specific Gravity (H <sub>2</sub> O=1)	1.06
Vapor Pressure (mm Hg.) (at 20 <sup>0</sup> C)	As water.	Melting Point	NA
Vapor Density (AIR= 1)	NA	Evaporation Rate (Butyl Acetate= 1)	NA
Solubility in Water	Completely Soluble		
Appearance and Odor	Clear, colorless, odorless solution.		

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used)	(Flammable Limits)	LEL	LEL
NA	NA	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	Product can form flammable phosphine gas when heated above 250 <sup>0</sup> C		

**Section V - Reactivity Data**

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

Incompatibility (*Materials to Avoid*)

Avoid contact with caustic and strong oxidizing agents.

Hazardous Decomposition or Byproducts

If involved in a fire, oxides of phosphorous may be generated. Phosphine gas may be formed when heated beyond the evaporation of all the water.

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

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
Health Hazards ( <i>Acute and Chronic</i> )	Strong irritant; may cause burning of mucous membranes, eyes and skin		
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure

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

Medical Conditions

Generally Aggravated by Exposure Exposed wounds.

Emergency and First Aid Procedures

Eyes and skin - flush eyes with excess water. 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

Stop spill/release if possible with minimal risk. Dike far ahead of spill for later recovery or disposal. Notify appropriate agencies. Immediate clean up recommended.

Waste Disposal Method

Incinerate recovered liquid accordance with local, state and federal regulations. Flush residual spill with water into sewer.

Precautions to Be Taken in Handling and Storing

Store in sealed drums kept in cool, dry place.

Other Precautions

Wear protective equipment if possible.

**Section VIII - Control Measures**

Respiratory Protection (*Specific Type*)

Use NIOSH approved respirator if conditions warrant.

Ventilation	Local Exhaust (Under Normal use)	Special
	Special ventilation not required.	
	Mechanical ( <i>General</i> )	Other
	NA	NA

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**

This product is non-hazardous and non-toxic.

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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. Ratings under Hazardous Materials Identification Systems (H.M.I.S.): Health=1; F=0; R=0; P=0.

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**Section XII - Other Information**

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None.

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