

**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)

**PRETREAT PLUS®-3100**

**Antiscalant**

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.

**Section 1 - Identification**

Manufacturer's Name

King Lee Technologies

Emergency Telephone Number

1-800-424-9300 (Chemtrec)

Emergency Telephone Number International

001-703-527-3887 (Chemtrec)

Address (Number, Street, City, State and ZIP Code)

8949 Kenamar Drive Bldg. 107  
San Diego, California 92121

Telephone Number for Information

(858) 693-4062

Date Prepared

January 1, 2017

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:

None listed as potentially hazardous.

Label elements	Signal Word	Hazard(s) not otherwise classified (HNOC)	Supplemental Information	Hazardous Statement
	Warning	None Known.	None.	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:

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**Section 4, First-aid measures**

Route(s) of Entry:

Inhalation?

Skin?

Ingestion?

Health Hazards (Acute and Chronic)

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 5 - Fire-fighting measures**

Flash Point (Method Used) Not Flammable	(Flammable Limits) Not Flammable	LEL NA	UEL NA
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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 6 - Accidental release measures**

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 in accordance with local, state and federal regulations.  
Flush residual spill with water into sewer.

**Section 7 - Handling and Storage**

Precautions to Be Taken in Handling and Storing  
Store in sealed drums kept in cool, dry place.

Other Precautions  
Wear protective equipment if possible.

Respiratory Protection (*Specific Type*)  
Use NIOSH approved respirator if conditions warrant.

Ventilation	Local Exhaust Use in well-ventilated area.	Special Additional ventilation for handling large volumes.
	Mechanical ( <i>General</i> ) NA	Other NA

**Section 8 - Exposure controls/personal protection**

Protective Gloves Water impenetrable gloves that can be washed.	Eye Protection Chemical safety goggles recommendable.
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Other Protective Clothing or Equipment  
Work overalls would prevent contamination of street clothes.

Work/Hygienic Practices  
Wash gloves and hands before touching anything else.

**Section 9 - Physical and chemical properties**

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 10 - Stability and reactivity**

Stability	Unstable		Conditions to Avoid Avoid heat and direct sun.
	Stable	<b>X</b>	

Incompatibility (*Materials to Avoid*)

Avoid contact with caustic and strong oxidizing agents.

Hazardous Decomposition or Byproducts

If involved in a fire, oxides of carbon and nitrogen may be generated.

Hazardous Polymerization	May Occur		Conditions to Avoid NA
	Will Not Occur	<b>X</b>	

**Section 11 - Toxicological information**

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

**Section 12 - Ecological Information**

This aqueous antiscalant is used at less than 15ppm by volume in RO feedwater, and is discharged with RO reject to municipal sewers. It contains no toxic components, and there is no reported ecological harm.

**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

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

TDG Canadian Transportation-

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

International Transportation

Product has no UN number, and is not regulated under international rail, road, water or air transportation.

**Section 15 - Regulatory Information**

HMIS: Health=2 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.