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MATERIAL SAFETY DATA SHEET (MSDS)

MSDS FOR: KL-17™ Water Repellent

Date: March 25, 2010

Supersedes: January 1, 2010

**24 HOUR CHEMICAL
EMERGENCY RESPONSE NUMBER:
CHEM-TREC
1-800-424-9300
U.S.A. and CANADA**

Section 1: Identification

Product Name: KL-17 Water Repellent
D.O.T. Name & UN Number: Caustic Alkali Liquid, N.O.S. / UN 1719
Generic Description: Silicate
Physical Form: Liquid
Color: Colorless
Odor: Some odor
NFPA Profile: Health 1 Flammability 1 Reactivity 0
(note: NFPA = National Fire Protection Association)

Section 2: OSHA Hazardous Ingredients

<u>CAS #</u>	<u>Wt %</u>	<u>Component</u>	<u>Exposure Limits</u>
016589438	7	Sodium methyl silliconate	None established

(comments: The above components are hazardous as defined in 29 CFR 1910.1200)

Section 3: Effects of Overexposure

Acute Effects:

Eye: Direct contact burns eyes with possible permanent damage, even blindness.
Skin: Burns severely upon short periods of contact.
Inhalation: Mist may seriously irritate nose, throat and lungs depending on concentration and duration of exposure.
Ingestion: Caused burns to mouth, throat and digestive system if swallowed.

Repeated Exposure:

Skin: None known
Inhalation: None known
Ingestion: None known

Special Hazards:

This material contains the following components with the special hazards listed below:

Carcinogens:	None known
Teratogens:	None known
Mutagens:	None known
Reproductive Toxins	None known
Sensitizers:	None known

Comments: Please read the additional information-

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions component data and/or expert review of the product.

Section 4: First Aid Measures

Eye:	Immediately flush with water for 15 minutes. Seek medical attention.
Skin:	Remove from skin and immediately flush with water for 15 minutes. Seek medical attention
Inhalation:	Remove to fresh air. Seek medical attention if ill effect persists.
Ingestion:	Seek immediate medical attention. Do not induce vomiting.
Comments:	Treat according to person's condition and specifics of exposure.

Section 5: Fire Fighting Measures

Flash Point (Closed Cup):	212.00oF / 100.00oC
Auto Ignition Temperature:	Not determined
Flammability Limits in Air:	Not determined
Extinguishing Media:	Carbon dioxide (CO2), water, water fog (or spray), dry chemical, foam.
Unsuitable Extinguishing Media:	None
Fire Fighting Procedures:	Self-contained breathing apparatus and protective clothing Should be worn in fighting fires involving chemicals.
Unusual Fire Hazards:	None

Hazardous Decomposition Products:

- Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products:
{Carbon oxides and traces of incompletely burned carbon compounds, Silicon dioxide, Metal oxides, Formaldehyde.}

Section 6: Accidental Release Measures

Containment/Clean-up:

Disposal of collected product, residues, and clean-up materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Mop up, or wipe, or soak with absorbent and contain for salvage or disposal. For large spills, provide diking or other appropriate containment to keep material from spreading. Clean any remaining slippery surfaces by appropriate techniques, such as: several mops or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas. For nonsilicones, use typical industrial cleaning materials.

Observe any safety precautions applicable to the cleaning material being used. Observe all personal protection equipment recommendations described in Sections 5 and 8. Local, state and federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

Section 7: Handling and Storage

Handling: No special precautions
Storage: No special precautions

Section 8: Exposure Controls / Personal Protection

Engineering Controls:

Local Exhaust: Recommended
General Ventilation: Recommended

Personal Protective Equipment for Routine Handling:

Eyes: Use chemical worker's goggles
Skin: Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.
Suitable Gloves: Contact chemical protective gloves supplier or manufacturer For appropriate glove material selection.
Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial hygiene personnel can assist in judging the adequacy of existing engineering controls.
Suitable Respirator: Dust / Mist type.

Personal Protection Equipment for Spills:

Eye: Use chemical worker's goggles.
Skin: Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, apron, boots, etc.) Use chemical protective gloves as a minimum and wash skin Promptly upon any skin contact.

Inhalation/Suitable Respirator: Use respirator protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial hygiene personnel can assist in judging the adequacy of existing engineering controls.

Precautionary Measures: Do not get in eyes. Do not get on skin. Do not breathe mist. Keep Container closed. Do not take internally.

Comments: None

(Note: These precautions are for room temperature handling. Use at elevated temperature, or aerosol/spray applications may require added precautions).

Section 9: Physical and Chemical Properties

Physical Form:	Liquid /	Color:	Colorless
Odor:	Some Odor /	Specific Gravity @ 25oC:	1.25
Viscosity:	10.00CST /	Freezing/Melting Point:	Not Applicable
Boiling Point:	Not Available /	Vapor Pressure @ 25oC:	Not Determined
Vapor Density:	Not Determined /	Solubility in Water:	100.00%
pH:	13.00 /	Volatile Content:	Not Determined

(Note: The above information is not intended for use in preparing product specifications.)

Section 10: Stability and Reactivity

Chemical Stability: Stable
Hazardous Polymerization: Hazardous Polymerization will not occur.
Conditions to Avoid: None
Materials to Avoid: Oxidizing material can cause a reaction.
Comments: None

Section 11: Toxicological Information

Optional section – Complete information not yet available.

Section 12: Ecological Information

Optional section – Complete information not yet available.

Section 13: Disposal Information

RCRC Hazard Class 40 CFR 261

- When a decision is made to discard this material, as received, is it classified as a hazardous waste: Yes
- Federal Hazardous Waste Code: N/A
- Characteristic Waste: Ignitable: N/A Corrosive: D002 Reactive: N/A
- TCLP: N/A
- State or local laws may impose additional regulatory requirements regarding disposal.

NA = Not Applicable.

Section 14: Transportation Information

DOT Information (49CFR 172.101)

- Proper Shipping Name: Caustic Alkali Liquid, N.O.S.
- Hazard Technical Name: Sodium Methyl Silicate
- Hazard Class: 8
- UN/NA Number: UN1719
- Packing Group: III

Section 15: Regulatory Information

Contents of this MSDS comply with the OSHA Hazardous Communication Standard 29CFR 1910.1200.

TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances: None

Section 312 Hazard Class:

Acute: Y Chronic: Y Fire: N Pressure: N Reactive: N

(Y=yes, N=No)

Section 313 Toxic Chemicals: None present or none present in regulated quantities.

Supplemental State Compliance Information:

CAS # Wt% Component

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.

None known.

Massachusetts

No ingredient regulated by MA Right-to-Know Law at present.

New Jersey

007732185	93	Water
016589438	7	Sodium methyl silicate

Pennsylvania

017732185	93	Water
016589438	7	Sodium methyl silicate

Section 16: Other Information

Prepared by: R.P.C., Inc.

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.