1 – IDENTIFICATION

PRODUCT IDENTIFIER:
Product Name: Cremsil Octyl Silane Cream

OTHER MEANS OF IDENTIFICATION
SDS #: KLAAS-001
UN/ID #: NA1993

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE
Recommended Use: Octylsilane based thixotropic cream used to waterproof and protect concrete substrates.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET
Distributor: Klaas Coatings (North America) LLC
PO Box 25122
Dallas, TX 75225-1122

EMERGENCY TELEPHONE NUMBER
Company Phone Number: (866) 317-3633
Emergency Telephone (24 hr): (866) 317-3633

2 – HAZARDS IDENTIFICATION

Appearance: White to yellowish pasty cream
Physical State: Paste cream
Odor: Slight

CLASSIFICATION

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute toxicity - Dermal</td>
<td>Category 4</td>
</tr>
<tr>
<td></td>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 4</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 1</td>
</tr>
<tr>
<td></td>
<td>Flammable Liquids</td>
<td>Category 4</td>
</tr>
</tbody>
</table>

SIGNAL WORD
Danger.

HAZARD STATEMENT
Harmful if swallowed.
Harmful in contact with skin.
Harmful if inhaled.
Causes damage to organs.
Combustible liquid.

SYMBOL PHRASES
Exclamation mark.
Health hazard.

PRECAUTIONARY STATEMENTS - PREVENTION
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
Use only outdoors or in a well-ventilated area.
Do not breathe dust/fume/gas/mist/vapors/spray.
Keep away from heat/sparks/open flames/hot surfaces - No smoking.

PRECAUTIONARY STATEMENTS - RESPONSE
IF exposed: Call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
Call a poison center or doctor/physician if you feel unwell.
Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a poison center or doctor/physician if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Rinse mouth.

PRECAUTIONARY STATEMENTS - STORAGE
Store locked up.
Store in a well-ventilated place. Keep cool.

PRECAUTIONARY STATEMENTS - DISPOSAL
Dispose of contents/container to an approved waste disposal plant.

OTHER HAZARDS
Toxic to aquatic life with long lasting effects.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octyl Triethoxy Silane</td>
<td>35435-21-3</td>
<td>40-70</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>Varies</td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>Varies</td>
</tr>
<tr>
<td>Amino-alkoxy dimethylsiloxane</td>
<td>71750-80-6</td>
<td>1-5</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is “proprietary” and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

Ethanol and methanol are by-products.

4 – FIRST AID MEASURES

FIRST AID MEASURES

General Advice
If exposed or concerned: Get medical advice/attention.

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin Contact
Wash off immediately with soap and plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Inhalation
Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.

Ingestion
Rinse mouth. Drink plenty of water. Seek medical attention immediately. Show label; indicate the possible formation of ethanol and methanol.

MOST IMPORTANT SYMPTOMS AND EFFECTS

Symptoms
May cause skin and eye irritation. In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes to Physician
Treat symptomatically.

5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
Dry sand. Carbon dioxide (CO₂). Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media	Water.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL
Combustible material.


PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers exposed to fire with water.

6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

<table>
<thead>
<tr>
<th>Personal Precautions</th>
<th>Use personal protective equipment as required. Remove all sources of ignition. Avoid breathing vapors or mists. Avoid contact with eyes and skin. Spills may be slippery.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Precautions</td>
<td>Do not flush into surface water or sanitary sewer system. U.S.A. regulations require reporting spills of this material that could reach any surface waters. The toll free number for the U.S. Coast Guard National Response Center is (800) 424-8802.</td>
</tr>
</tbody>
</table>

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

<table>
<thead>
<tr>
<th>Methods for Containment</th>
<th>Prevent further leakage or spillage if safe to do so.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods for Clean-Up</td>
<td>Absorb spillage with non-combustible, absorbent material. Seal absorbent material in a closed labeled container and dispose of in accordance with local regulations. Do not flush with water.</td>
</tr>
</tbody>
</table>

7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Advice on Safe Handling

Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces - No smoking. In case of aerosol formation, special protective measures are required (exhausting by suction, respiratory protection). In partly emptied containers, formation of explosive mixtures is possible. Product can separate from methanol.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Do not transport or store below 0°C/32°F.

Incompatible Materials

Reacts slowly with: water and acids. Reaction causes the formation of ethanol.

8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm, TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m³</td>
<td>TWA: 1000 ppm, TWA: 1900 mg/m³</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

KLAAS-001 – Cremsil Octyl Silane Cream
Revision Date 07-May-2015

<table>
<thead>
<tr>
<th>Methanol 67-56-1</th>
<th>STEL: 250 ppm</th>
<th>TWA: 200 ppm</th>
<th>TWA: 260 mg/m³</th>
<th>TWA: 200 ppm</th>
<th>STEL: 250 ppm</th>
<th>STEL: 325 mg/m³</th>
<th>IDLH: 6000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STEL: 250 ppm</td>
<td>TWA: 200 ppm</td>
<td>TWA: 260 mg/m³</td>
<td>(vacated) TWA: 200 ppm</td>
<td>(vacated) STEL: 250 ppm</td>
<td>(vacated) STEL: 325 mg/m³</td>
<td>(vacated)</td>
</tr>
</tbody>
</table>

APPROPRIATE ENGINEERING CONTROLS

Engineering Controls
Use local exhaust ventilation where mist or spray may be generated. Eyewash stations. Showers.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection
Use safety glasses with unperforated side shields during transfer and application. During spray application, chemical goggles are advised.

Skin and Body Protection
Recommend any standard or disposable coveralls. Wear protective butyl rubber gloves.

Respiratory Protection
If spraying, or in other operations that create an aerosol mist, respiratory protection is recommended. A NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and, at least, P-99 solid/aerosol particulate filters is recommended if overexposure to dust, mists or vapors could occur.

General Hygiene Considerations
Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

9 – PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUES</th>
<th>REMARKS</th>
<th>METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>~ 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>100°C / 212°F</td>
<td>@ 1013hPa</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>64°C / 147°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.33 psi</td>
<td>@ 20°C / 68°F</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Completely miscible</td>
<td>@ 20°C / 68°F</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>265°C / 509°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>~ 7.51 lb. per gal</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
10 – STABILITY AND REACTIVITY

REACTIVITY
Not reactive under normal conditions.

CHEMICAL STABILITY
Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

CONDITIONS TO AVOID
Contact incompatible materials. Access to unauthorized persons.

INCOMPATIBLE MATERIALS
Reacts slowly with: water and acids. Reaction causes the formation of: ethanol.

HAZARDOUS DECOMPOSITION PRODUCTS
By hydrolysis: ethanol.

11 – TOXICOLOGY INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

Product Information

Eye Contact
Avoid contact with eyes.

Skin Contact
Harmful in contact with skin.

Inhalation
Harmful if inhaled.

Ingestion
Harmful if swallowed.

COMPONENT INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>= 7060 mg/kg (Rat)</td>
<td>-</td>
<td>=124.7 mg/L (Rat) 4h</td>
</tr>
<tr>
<td>Methanol 67-56-1</td>
<td>= 5628 mg/kg (Rat)</td>
<td>= 15800 mg/kg (Rabbit)</td>
<td>=83.2 mg/L (Rat) 4h</td>
</tr>
</tbody>
</table>

=64000 ppm (Rat) 4h

INFORMATION ON PHYSICAL, CHEMICAL AND TOXICOLOGICAL EFFECTS

Symptoms
Please see section 4 of this SDS for symptoms.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

Carcinogenicity
Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

STOT - single exposure
Causes damage to organs.

NUMERICAL MEASURES OF TOXICITY
Not determined

12 – ECOLOGICAL INFORMATION

ECOTOXICITY
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td>9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PERSISTENCE/DEGRADABILITY
Silicone content: biologically not degradable. Hydrolysis product (ethanol) readily biologically degradable. By hydrolysis: ethanol and silanol- and/or siloxanol compounds.

BIOACCUMULATION
Not determined.

MOBILITY

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>-0.32</td>
</tr>
<tr>
<td>Methanol</td>
<td>-0.77</td>
</tr>
</tbody>
</table>

OTHER ADVERSE EFFECTS
Not determined

13 – DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA WASTE NUMBER

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol 67-56-1</td>
<td></td>
<td>Included in waste streams: F039</td>
<td></td>
<td>U154</td>
</tr>
</tbody>
</table>

CALIFORNIA HAZARDOUS WASTE STATUS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>Toxic Ignitable</td>
</tr>
<tr>
<td>Methanol 67-56-1</td>
<td>Toxic Ignitable</td>
</tr>
</tbody>
</table>

14 – TRANSPORT INFORMATION

NOTE

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. DOT Ground: Combustible liquids are not regulated in non-bulk shipments per 49 CFR 173.150(f)(2).

DOT

- UN/ID No: NA1993
- Proper Shipping Name: Combustible liquid, n.o.s. (ethanol)
- Hazard Class: Comb Liq
- Packing Group: III

IATA:

Not regulated

IMDG:

Not regulated

15 – REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

- TSCA: Listed
- DSL: Listed

Legend

- TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List

US FEDERAL REGULATIONS

CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol 67-56-1</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 311/312 HAZARD CATEGORIES

- Fire Hazard: Yes

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>Proprietary</td>
<td>1.0</td>
</tr>
</tbody>
</table>
### U.S. STATE REGULATIONS

#### CALIFORNIA PROPOSITION 65
This product contains the following Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol - 64-17-5</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Methanol 67-56-1</td>
<td>Developmental</td>
</tr>
</tbody>
</table>

#### U.S. STATE RIGHT-TO-KNOW REGULATIONS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Methanol 67-56-1</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### 16 – OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Issue Date:** 07-Feb-2008  
**Revision Date:** 07-May-2015  
**Revision Note:** New Format

### DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet