

MATERIAL SAFETY DATA SHEET



1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: *Cremasil*[®] – an octylsilane based thixotropic cream used to waterproof and protect concrete substrates.

DISTRIBUTOR'S NAME AND ADDRESS:	Klaas Coatings (North America) LLC	EMERGENCY TELEPHONE NUMBERS:	
	PO Box 25122	> 8:00 AM – 5:00 PM CST Mon-Fri:	(866) 317-3633
	Dallas, TX 75225-1122	> NON-BUSINESS HOURS:	(866) 317-3633
DATE PREPARED:	02/07/2008	INFORMATION TELEPHONE:	(866) 317-3633

2 – COMPOSITION / INGREDIENTS INFORMATION

Chemical characteristics: Alkylalkoxysilane and siloxane emulsion in water.

Information on Ingredients:

TYPE:	CAS NO.:	SUBSTANCE:	CONTENT (WT. %):	
			LOWER	UPPER
INHA	35435-21-3	Octyl triethoxy silane	40.0	70.0
VERU		other i-octyltriethoxysilanes	3.0	7.0
INHA	71750-80-6	Polydimethyl siloxane, (AEAPDMSO)-term.	1.0	5.0
NEBE	64-17-5	Ethanol	Varies	Varies
NEBE	67-56-1	Methanol	Varies	Varies

Type: INHA - ingredient, NEBE - by-product, VERU - impurity.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

3 – PHYSICAL DATA

APPEARANCE:	ODOR:	pH VALUE:	DENSITY:	VAPOR PRESSURE:	SOLUBILITY IN WATER:
Physical state / form: paste Color: white	Odor: slight	Approx. 7	Approx. 0.9 g/cm ³	0.33 psi (23 hPa) at 68°F (20°C)	Completely miscible at 68°F (20°C)

4 – HAZARDS IDENTIFICATION

HMIS[®] rating (product as packaged):

HEALTH:	FIRE:	REACTIVITY:	PPE:
1	2	1	1

Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response situation. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.) Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association.

Canadian WHMIS Classification: B3

POTENTIAL HAZARDS AND EMERGENCY OVERVIEW

Signal Word: CAUTION

Physical Hazards: Combustible liquid and vapor.

MATERIAL SAFETY DATA SHEET



Acute Health Effects:

ROUTE OF ENTRY OR POSSIBLE CONTACT:

Skin, eyes, inhalation (aerosol), ingestion.

EYE CONTACT:

May cause eye irritation.

SKIN CONTACT:

May cause slight skin irritation.

INHALATION:

No acute toxic effects are expected. Higher aerosol/ vapor concentrations may be harmful if inhaled.

INGESTION:

Not expected in industrial use.

Additional information on acute health effects:

The health hazard evaluation is based on test results and/or on known properties of ingredients. This material releases ethanol upon hydrolysis. Ethanol (CAS-No. 64-17-5) is an irritant to the eyes and mucous membranes. Overexposure has been shown to cause central nervous system depression. Direct contact with the eyes will cause burning and stinging.

CHRONIC HEALTH EFFECTS:

No known or expected chronic health effects. By-product: See previous paragraph "Additional information on acute health effects".

See Section 13 for Toxicological Information, if any.

MEDICAL CONDITIONS AGGRAVATED DUE TO EXPOSURE:

None known.

SIGNS AND SYMPTOMS OF EXPOSURE:

Refer to Acute Health Effects, listed above.

CARCINOGENS/REPRODUCTIVE TOXINS:

There are no carcinogenic ingredients present at or over 0.1% in this material. Does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

5 – EMERGENCY AND FIRST AID PROCEDURES

Get medical attention if irritation or other symptoms persist. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of Material Safety Data Sheet when going for medical treatment.

EYE CONTACT:

Flush with large quantities of water for 15-minutes holding eyelids apart to flush entire eye surface.

SKIN CONTACT:

If contact with skin, immediately flush skin with large quantities of water or with water and soap.

INHALATION:

If inhaled as aerosol, remove to fresh air. If breathing is difficult provide oxygen. If not breathing, give artificial respiration.

INGESTION:

Drink large amounts of water. Seek medical attention immediately. Show label. Indicate the possible formation of ethanol.

6 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD):

165°F (74°C).

BOILING POINT / BOILING RANGE:

212°F (100°C) at 1013 hPa.

LOWER EXPLOSION LIMIT (LEL):

Not determined.

UPPER EXPLOSION LIMIT (UEL):

Not determined.

IGNITION TEMPERATURE:

509°F (265°C).

FIRE AND EXPLOSION HAZARDS:

This material does not present any unusual fire or explosion hazards.

RECOMMENDED EXTINGUISHING MEDIA:

Sand, carbon dioxide, dry chemical or alcohol-resistant foam.

UNSUITABLE EXTINGUISHING MEDIA:

Water.

FIRE FIGHTING PROCEDURES:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

UNUSUAL EXPOSURE HAZARDS ARISING FROM SUBSTANCE, ITS COMBUSTION, RESULTING GASES:

Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide, nitrogen oxides and incompletely burnt hydrocarbons.

MATERIAL SAFETY DATA SHEET



7 – ACCIDENTAL RELEASE MEASURES

PRECAUTIONS:

Avoid inhaling mists and vapors. Avoid contact with eyes and skin.
HAZWOPER PPE Level: D

CONTAINMENT:

Prevent material from entering sewers or surface waters. Soak up residue with noncombustible absorbent such as sand or soil; retain contaminated water. Place in sealed containers for proper disposal.
Spills of material that could reach surface waters must be reported to U.S. Coast Guard National Response Center's toll free phone number (800) 424-8802.

CLEANING UP METHODS:

Do not flush away with water. Take up mechanically and dispose of according to Local/State/Federal regulations.

FURTHER INFORMATION:

Eliminate all sources of ignition.

8 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection).
Spilled substance increases risk of slipping.

PROTECTION AGAINST FIRE AND EXPLOSION:

Keep away from open flames, heat and sparks. In partly emptied containers formation of explosive mixtures is possible. Product can separate methanol.

STORAGE CONDITIONS:

Keep containers closed tightly and store in a cool, dry place with adequate ventilation.

STORAGE AND TRANSPORT CONDITIONS:

Protect against frost. Minimum temperature allowed during storage and transportation: 32°F (0°C)

9 – PERSONNEL PROTECTION

VENTILATION AND LOCAL EXHAUST:

Use with adequate ventilation.
To control flammable /combustible vapors use of local exhaust ventilation to ANSI Z9.2 requirements is advised to control airborne contaminants at the point of use.
If spraying, or in other operations that create an aerosol mist, local exhaust ventilation designed to capture mists and sprays, such as a paint spray booth, is advised.

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.

PROTECTIVE CLOTHING AND GLOVES:

Recommend any standard or disposable coveralls. Launder contaminated clothing before reuse.
Use butyl rubber protective gloves.
Provide eye bath and safety shower.

EYE PROTECTION:

Use safety glasses with unperforated side shields during transfer and application.
During spray application chemical goggles are advised.

GENERAL HYGIENE AND PROTECTIVE MEASURES:

Avoid contact with eyes and skin.
Do not breathe dust/vapor/mist/gas/aerosol.
Do not eat, drink or smoke when handling.
Wash thoroughly after handling.

Associate substances with specific control parameters such as limit values on maximum airborne concentrations in the workplace:

CAS No:	MATERIAL:	TYPE:	mg/m3:	PPM:
64-17-5	Ethanol	OSHA PEL	1,900.0	1,000.0
64-17-5	Ethanol	ACGIH TWA		1,000.0

MATERIAL SAFETY DATA SHEET



10 – STABILITY AND REACTIVITY

GENERAL INFORMATION:	CONDITIONS TO AVOID:	MATERIALS TO AVOID:	HAZARDOUS DECOMPOSITION PRODUCTS:	FURTHER INFORMATION:
If stored and handled in accordance with standard industrial practices no hazardous reactions are known.	None known.	Reacts slowly with: water and acids. Reaction causes the formation of: ethanol.	By hydrolysis: ethanol.	Hazardous polymerization cannot occur. Conditions to avoid hazardous polymerization: none known.

11 – DISPOSAL CONSIDERATIONS

PRODUCT:	PACKAGING:
Recommendation: Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations	Recommendation: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

12 – ECOLOGICAL INFORMATION

ELIMINATION (PERSISTENCE AND DEGRADABILITY):	BEHAVIOUR IN ENVIRONMENTAL COMPARTMENTS:	ECOTOXICOLOGICAL EFFECTS:	ADDITIONAL INFORMATION:
Silicone content: biologically not degradable. Hydrolysis product (ethanol) readily biologically degradable. By hydrolysis: ethanol and silanol- and/or siloxanol- compounds .	No known effects.	Classification based on ingredients: harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.	No other known effects.

13 – TOXICOLOGICAL INFORMATION

General information:
Toxicological testing has been conducted with this material.

Toxicological data:
Acute toxicity (LD50/LC50-values relevant to classification):

EXPOSITION:	VALUE/VALUE RANGE:	SPECIES:	SOURCE:
by inhalation	> 5.2 mg/l/4h (spray/dust)	Rat (Limit Test)	Test report

14 – TRANSPORT INFORMATION

US DOT & CANADA TDG SURFACE:	TRANSPORT BY SEA IMDG-CODE:	AIR TRANSPORT ICAO-TI/IATA-DGR:
Valuation: Not regulated for transport Other Information: Protect from freezing. Not regulated in containers up to 119 Gal./450 L each. DOT regulated as a Combustible Liquid when packaged in bulk containers (> 119 Gallons).	Valuation: Not regulated for transport Marine Pollutant: No	Valuation: Not regulated for transport

MATERIAL SAFETY DATA SHEET



15 – REGULATORY INFORMATION

U.S. Federal Regulations

TSCA INVENTORY STATUS AND TSCA INFORMATION:	TSCA 12(B) EXPORT NOTIFICATION:	CERCLA REGULATED CHEMICALS:	SARA 302 EHS CHEMICALS:	SARA 311/312 HAZARD CLASS:	SARA 313 CHEMICALS:	HAPS (HAZARDOUS AIR POLLUTANTS):
This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.	This material does not contain any TSCA 12(b) regulated chemicals.	This material does not contain any CERCLA regulated chemicals.	This material does not contain any SARA extremely hazardous substances.	Fire hazard.	This material does not contain any SARA 313 chemicals above the minimum levels.	67-56-1 Methanol

U.S. State Regulations

CALIFORNIA PROPOSITION 65 CARCINOGENS:	CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS:	MASSACHUSETTS SUBSTANCE LIST:	NEW JERSEY RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST:	PENNSYLVANIA RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST:
This material does not contain any chemicals known to the state of California to cause cancer.	This material does not contain any chemicals known to the state of California to cause reproductive effects.	This material contains no listed components.	This material contains no listed components.	This material contains no listed components.

Canadian Regulations

WHMIS HAZARD CLASSES:	DSL STATUS:	NON-DSL CHEMICALS:	CANADIAN INGREDIENT DISCLOSURE LIST:
B3.	This material or its components are listed on the Canadian Domestic Substances List.	This material does not contain any non-DSL chemicals.	This material contains no listed components.

16 – OTHER INFORMATION

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness.

It is the user's responsibility to satisfy oneself as to the suitability and completeness of such information for their particular use. Klaas Coatings (North America) LLC does not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

MSDS Status: Issued: February 07, 2008
For Product Supplied After: February 07, 2008