

## MATERIAL SAFETY DATA SHEET

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CAL-OSHA: 619-767-2280

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### SECTION I – PRODUCT IDENTIFICATION

Product Code: S-1300 Pene-Krete (formerly Crystal-Krete)  
Chemical Name: Modified Sodium Silicate

### SECTION II – PHYSICAL DATA

Appearance:	Syrupy Liquid	Specific Gravity:	1.134
Color:	Clear to hazy white	Percentage Volatiles by Volume:	0
Odor:	Odorless or musty odor	Solubility in Water:	Miscible
Boiling Point:	212 Degrees F.	Vapor Pressure:	Unknown

### SECTION III-FIRE & EXPLOSION DATA

Flash Point: Non-flammable  
pH (% solution): approximately 11.3  
Extinguishing Media: Not Applicable  
Special Firefighting Procedures: None  
Unusual Fire & Explosion Hazards: Not Applicable  
Flammability or Explosive Limits: Not Applicable

### SECTION IV -- HEALTH HAZARD DATA

Contains no hazardous materials as defined by OSHA and ACGIH

Emergency Overview: Clear to hazy, colorless, odorless liquid. May cause eye, skin, and digestive tract irritation. High pH is harmful to aquatic life. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.

Eye contact: Causes irritation

Skin contact: Causes irritation

Inhalation: Spray mist irritating to respiratory system

Ingestion: May cause irritation to mouth, esophagus and stomach.

Chronic hazards: No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.

Physical hazards: Dries to form glass film which can easily cut skin. Spilled material is very slippery. Can etch glass if not promptly removed.

## SECTION V – FIRST AID MEASURES

Eye:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

## SECTION VI – FIRE FIGHTING MEASURES

Flammable Limits:	This material is noncombustible.
Extinguishing Media:	This material is compatible with all extinguishing media.
Hazards to fire fighters:	See Section IV for information on hazards when this material is present in the area of a fire.
Fire-fighting equipment:	The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: chemical goggles, body-covering protective clothing, chemical resistant gloves and rubber boots.

## SECTION VII – ACCIDENTAL RELEASE MEASURES

Personal protection:	Wear chemical goggles, body-covering protective clothing, chemical resistant gloves and rubber boots. See section VIII.
Environmental Hazards:	Sinks and mixes with water. High pH of this material is harmful to aquatic life. See Section XII. Only water will evaporate from a spill of this material.
Small spill cleanup:	Mop up and neutralize liquid, then discharge to sewer in accordance with federal, state and local regulations or permits.
Large spill cleanup:	Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent runoff from entering into storm sewers and ditches that lead to natural waterways. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material. If containment is impossible, neutralize contaminated area and flush with large quantities of water.
CERCLA RQ:	There is no CERCLA Reportable Quantity for this material. If a spill goes off site, notification of state and local authorities is recommended.

## SECTION VIII – HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.
Storage:	Keep containers closed. Store in clean steel or plastic containers. Separate from acids, reactive metals, and ammonium salts. Storage temperature is 0-95°C. Loading temperature is 45-95°C. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

## SECTION IX – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:	Use with adequate ventilation. Keep containers closed. Clean water should be accessible.
Respiratory protection:	Use a NIOSH-approved dust and mist respirator where spray mist occurs. Observe OSHA regulations for respirator use (29 C.F.R. § 1910.134).
Skin protection:	Wear body-covering protective clothing and gloves.

Eye protection: Wear chemical goggles.

### **SECTION X – STABILITY AND REACTIVITY**

Stability: This material is stable under all conditions of use and storage.  
Conditions to avoid: None.  
Materials to avoid: Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead and zinc.  
Hazardous decomposition Products: Hydrogen

### **SECTION XI – ECOLOGICAL INFORMATION**

Eco toxicity: This product contains approximately 37.5% sodium silicate.  
Physical/Chemical: Sinks and mixes with water. Only water will evaporate from this material.

### **SECTION XII – DISPOSAL CONSIDERATIONS**

Classification: Disposed material is not a hazardous waste.  
Disposal Method: Neutralize and landfill solids in accordance with federal, state and local regulations. Flush neutral liquid to sewer accordance with federal, state and local regulations and permits.

### **SECTION XVIII – TRANSPORT INFORMATION**

DOT UN Status: This material is not regulated hazardous material for transportation.

### **SECTION XIV – REGULATORY INFORMATION**

CERCLA: No CERCLA Reportable Quantity has been established for this material.  
SARA TITLE III: Not an Extremely Hazardous Substance under §302. Not a Toxic Chemical under §313. Hazard Categories under §311/312: Acute.  
TSCA: All ingredients of this material are listed on the TSCA inventory.  
FDA: The use of sodium silicate is authorized by FDS as a boiler water additive for the production of steam that will contact food pursuant to 21 CFR §173.310; as a component of zinc silicon dioxide matrix coatings on food contact surfaces pursuant to 21 CFR §175.390©; as a GRAS substance when migrating from cotton fabric used in dry food packaging pursuant to 21 CFR §182.70; and as a GRAS substance when migrating from food from paper and paperboard products pursuant to 21 CFR §182.90.

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