



# MATERIAL SAFETY DATA SHEET

Copyright: 2003

Effective Date: 1/1/08 Supercedes: 7/5/07

Emergency #: 405-745-2070

## SECTION I. IDENTIFICATION

PRODUCT NAME: **CP-1000**

CHEMICAL NAME & SYNONYMS: Water Based Mixture of Modified Siliconates

PROCESSORS NAME: Chemical Products Industries, Inc. 7469 SW 34th St. Oklahoma City, OK 73179  
Phone: (405) 745-2070 Fax: (405) 745-2276

CAS #: 31795-24-1

CHEMICAL FAMILY: Water Solution of Modified Siliconates

CHEMICAL FORMULA: Proprietary Water Based Mixture of Modified Siliconates

## SECTION II. COMPONENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>% BY WT*</u>
-Potassium Methyl Siliconate; Potassium Siliconate	31795-24-1	≤30%
- Trace Chemicals		<1.0 %
- Water	007732-18-5	Balance

\*The concentrations shown in the substance list are maximum or ceiling levels (weight %) to be used for calculations for regulations.

## SECTION III. HEALTH HAZARDS

NFPA 704 CODES: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious and 4=Severe

<u>HEALTH (BLUE)</u>	<u>FLAMMABILITY (RED)</u>	<u>REACTIVITY (YELLOW)</u>	<u>CLOTHING</u>
NFPA: 3 HMIS: 1	NFPA: 1 HMIS: 0	NFPA: 0 HMIS: 0	NFPA: HMIS: PP = B

### ACUTE EFFECTS OF OVEREXPOSURE:

- EYE: Causes irritation.
- SKIN: Causes irritation.
- INHALATION: Breathing mist may cause mild irritation to upper respiratory tract.
- INGESTION: May cause irritation to mouth, esophagus, and stomach.

CHRONIC EFFECTS OF OVEREXPOSURE: No known chronic hazards. Not listed by NTP, IARC or OSHA  
As a carcinogen.

OTHER HEALTH EFFECTS Dries to form glass film which can easily cut skin. Spilled material is very slippery. Can etch glass if not promptly removed.

## SECTION IV. FIRST AID MEASURES

**EMERGENCY FIRST AID PROCEDURES:**

- EYE: Immediately flush eyes with running water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
- SKIN: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation or adverse symptoms continue, seek medical attention.
- INHALATION: Remove to fresh air.
- INGESTION: Do not take internally. Drink large quantities of milk or water. Do not induce vomiting. Seek medical attention if stomach upset occurs.

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**SECTION V. FIRE AND EXPLOSION HAZARD DATA**


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**CP-1000** does not support combustion and is not considered a fire or explosive hazard. This material is compatible with all extinguishing media. These materials should be considered irritants. Causes eye, skin, and digestive track irritation. Spray mist causes irritation to respiratory track. For these reasons, fire fighters should wear chemical goggles, full protective clothing, chemical resistant gloves, and rubber boots.

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**SECTION VI. SPILL, LEAK & DISPOSAL PROCEDURES**


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Contain spills immediately with inert material to prevent waterway entry. Transfer liquids and solid diking materials to suitable containers for recovery or disposal.

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**SECTION VII. HANDLING AND STORAGE**


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Handle in a well ventilated area. Safety shower and eyewash fountain should be within direct access. Avoid inhaling vapors and mists, and getting in eyes, on skin or on clothing. Wash hands and other contaminated areas thoroughly with soap and water after handling this product and before eating or smoking. Wash contaminated clothing and equipment thoroughly before reuse. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

Normal warehouse storage in a closed container is adequate. Storage temperature should be above freezing and below 120°F. Drain equipment and flush with water to clean.

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**SECTION VIII. PERSONAL PROTECTION**


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Appropriate personal protective equipment necessary to prevent repeated or prolonged contact should be worn. Use with adequate ventilation. Avoid breathing mist or vapors. Where high concentrations of mist occurs, a respirator with appropriate dust and mist removal capabilities is recommended. Eye protection, resistant clothing and resistant boots should be worn where spills or splashing can occur. Chemical splash goggles are recommended. A single prolonged skin exposure is not likely to result in skin irritation or absorption through the skin in harmful amounts. Wash contaminated clothing before reuse. Do not take internally. An eye wash station should be available.

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**SECTION IX. - PHYSICAL AND CHEMICAL PROPERTIES**


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APPEARANCE:	Clear liquid
ODOR:	Low Odor
pH: (Typical)	12-13
BOILING POINT, 760 mm Hg:	>95F, 188.2C
VAPOR PRESSURE, at 20 deg. C:	17.0 mm Hg
LIQUID DENSITY :	Approx. 1.08 g/cm <sup>3</sup> at 20C
SOLUBILITY IN WATER, by wt.:	100 %
SPECIFIC GRAVITY (H <sub>2</sub> O = 1):	1.03
VISCOSITY:	Approx. 100 mPa*s
PHYSICAL STATE:	Liquid

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**SECTION X. STABILITY AND REACTIVITY**


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**CP-1000** is stable under all conditions of use and storage. **CP-1000** 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.

## SECTION XI. TOXICOLOGICAL INFORMATION

This product is known to be a mild eye and upper respiratory irritant. When tested for primary skin irritation potential, similar potassium silicate solution produced no irritation to intact skin, but well defined irritation to abraded skin. Human experience confirms that irritation occurs when potassium silicates get on clothes at the collar, cuffs or other areas where abrasion may occur. Do not take internally, avoid breathing mist and minimize eye and skin contact.

HEALTH HAZARD CATEGORIES: None of the product's ingredients are found on any lists of hazardous, carcinogenic or banned chemical agents or materials generated by them.

## SECTION XII. ECOLOGICAL INFORMATION

There is little or no risk to surrounding vegetation during application, and overspray on non-targeted areas can be easily removed with soap and water.

## SECTION XIII. DISPOSAL CONSIDERATIONS

The material is non-hazardous. Small quantities may be cleaned with soap and water, then flushed to a sanitary or industrial sewer. Absorbent material containing small amounts of the material may be disposed in appropriate land fills. Disposal of large quantities should comply with applicable disposal permits. Do not introduce large amounts into purification plants.

## SECTION XIV. TRANSPORT INFORMATION

DOT SHIPPING NAME (49CFR 172.101):	Non Flammable Liquid, NOS, Water Based Mixture of Silicates
- DOT ID# (49CFR 172.101):	Non Regulated
- DOT HAZARD CLASS:	Non Flammable Liquid, NOS
- MARKING:	None Required
- LABEL:	None Required
- PLACARD:	None Required
- HAZARD (29 CFR 1910.1200):	Non-Flammable

## SECTION XV. REGULATORY INFORMATION

### **FEDERAL**

This product is non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910-1200). All components are on the Confidential or Non-Confidential TSCA Inventory List. The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) inventory and do not have special toxic substances warning requirements.

None of the components in this product require notification of the National Response Center under the Comprehensive Environmental Response Compensation, and Liability Act of 1980 (CERCLA) per 40 CFR 302.4.

None of the components in this product require reporting under Superfund Amendment and Reauthorization Act of 1986 (SARA) Title III as emergency planning or release reporting per 40 CFR 355 (used for SARA 302, 304, 311 and 312). The components also do not require annual reporting as a toxic chemical under SARA Title III per 40 CFR 372 (for SARA 313). This product contains no chemicals subject to SARA Title III, Section -13. Part 372 reporting requirements.

### **STATE RIGHT-TO-KNOW**

Under California Proposition 65, this product contains no listed substances at levels which would require a warning as a product known to the to cause cancer, birth defects or other reproductive harm.

Under the Massachusetts Right-To-Know Law, this product contains no listed substances at levels that require reporting per the Substance List.

Under the Pennsylvania Right-To-Know Law, this product contains no listed substances at levels that require reporting per the Hazardous Substance List.

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**SECTION XVI. OTHER INFORMATION**

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APPROVED BY: \_\_\_\_\_  
Floyd E. Farha, Ph.D.

DATE: 1/1/08  
SUPERCEDES: 7/5/07

All terms and abbreviations have been defined in various government publications, or are standard chemical terms used by IUPAC.

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