



COLUMBUS CHEMICAL INDUSTRIES INC.

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(920) 623-2140
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Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Sodium silicate, 42° Be'

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, Wisconsin 53925

Emergency Telephone Number

CHEMTREC: 1 (800) 424-9300

Telephone Number for Information

1 (920) 623-2140

Date Prepared

1-16-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Sodium Silicate\*, 1344-09-8, Not established, Not established, Not established, 37-41%

\*Synonyms: Silicic acid, sodium salt

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Rows: Boiling Point (Not available), Specific Gravity (H2O = 1) (1.410), Vapor Pressure (mm Hg) (Not available), Melting Point (Not available), Vapor Density (AIR = 1) (Not available), Evaporation Rate (Butyl Acetate = 1) (Not available)

Solubility in Water

Complete in all proportions

Appearance and Odor

cloudy, colorless to white, odorless liquid. Oily feel.

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: Nonflammable, Not applicable, Not applicable

Extinguishing Media

Suitable to extinguish the supporting flame. Water spray, dry chemical, carbon dioxide, alcohol foam.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Incompatibles
	Stable	X		

**Incompatibility Materials to Avoid**

Highly reactive with acids and oxidizers.

**Hazardous Decomposition or Byproducts**

unknown

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		None
	Will Not Occur		

**Section VI Health Hazard Data****Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

	Yes	Yes	Yes
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**Health Hazards (Acute and Chronic)**

SKIN: May cause irritation or burns. EYE: May cause irritation or burns. INHALATION: Destructive to mucous membranes and upper respiratory tract. INGESTION: May be harmful if ingested. Material is corrosive.

**Carcinogenicity****NTP****IARC Monographs****OSHA REGULATED?**

	Not Listed	Not Listed	Not Listed
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**Signs and Symptoms of Exposure.**

Spasm, inflammation and swelling of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

**Medical Conditions Generally Aggravated by Exposure**

Unknown to CCI.

**Emergency and First Aid Procedures**

INGESTION: If swallowed, call a physician immediately, do not induce vomiting. Do not leave victim unattended. EYES: In case of contact, immediately flush with large amounts of water for at least 15 minutes. Call physician. INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician. SKIN: Immediately wash skin with soap and large amounts of water.

**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Evacuate area. Wear chemical-resistant goggles, rubber boots, apron and heavy rubber gloves. Contain spill with dikes, sand or noncombustible absorbent material. Sweep up and place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

**Waste Disposal Method** Dispose in accordance with all applicable Federal, state and local regulations.

**Precautions to be Taken in Handling and Storing**

Keep in tightly closed plainly-labelled containers, stored in a cool, dry, ventilated area. Protect against physical damage. Maintain adequate ventilation. Do not breathe vapors.

**Other Precautions** Containers, even when empty, will retain residue and vapors .

Always obey hazard warnings and handle empty containers as if they were full.

**Section VII Control Measures**

**Respiratory Protection (Specify Type)** Not required

Ventilation	Local Exhaust	Recommended.	Special	Eye-wash station nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

**Protective Gloves** Rubber gloves. **Eye Protection** Safety goggles

**Other Protective Clothing or Equipment** Lab coat or apron.

**Work /Hygienic Practices** Contact lenses should not be worn when working with this material. Maintain eyewash and quick-drench facilities in work area. Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. Avoid breathing mist. **CORROSIVE!**

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