



COLUMBUS CHEMICAL INDUSTRIES INC.

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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, Meta, anhyd

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

12-04-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components

(Specific Chemical Identity, Common Name(s))

CAS #

OSHA PEL

ACGIH TLV

Other Limits

Recommended

% (optional)

Sodium Silicate, Meta, anhyd*

6834-92-0

Not Available

Not Available

Not Available

*SYNONYMS: Disodium trioxosilicate; Disodium metasilicate

Section III - Physical/Chemical Characteristics

Boiling Point

Not Available

Specific Gravity (H2O = 1)

Not Available

Vapor Pressure (mm Hg)

@ 739 °C

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

White powder.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)

Nonflammable

Flammable Limits

LEL

UEL

Not applicable

Not applicable

Extinguishing Media

Suitable to extinguish the supporting flame.

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	Protect from moisture
	Stable	X		

Incompatibility Materials to Avoid

acids, lead, tin, zinc and aluminum.

Hazardous Decomposition or Byproducts

Sodium oxides, silicon oxides.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Not applicable.
	Will Not Occur	X	

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

SKIN: causes burns . EYE: Causes severe irritation and burns. INHALATION: destructive to mucous membranes and upper respiratory tract. INGESTION: Harmful if swallowed.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not Listed	Not Listed	Not Listed

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

Not available

Emergency and First Aid Procedures CALL A PHYSICIAN. Ingestion: do not induce vomiting; if conscious, give water, milk, or milk of magnesia. Contact: immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.

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

Evacuate and ventilate area. Wear approved respirator with dust/mist cartridge, rubber boots and rubber gloves. Absorb on non combustible material and place material into a suitable dry container. Thoroughly rinse spill area and ventilate when 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. Store in a cool, dry, corrosion-resistant and ventilated area. Protect against physical damage. Store in corrosion-resistant containers. Maintain effective ventilation. Protect exposed tissues. Do not ingest or breathe vapors or dusts.

Other Precautions Do not get in eyes, on clothing. Use with adequate ventilation. Containers, even when empty, will retain residue. Always obey hazard warnings and handle empty containers as if they were full.

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA-approved respirator with dust/mist cartridge.

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

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

Other Protective Clothing or Equipment Lab coat or apron and rubber boots. Face-shield recommended.

Work /Hygienic Practices Wash exposed areas thoroughly after handling. Wash contaminated clothing before reuse.

Do NOT wear contact lenses. CORROSIVE MATERIAL! Do not wear contact lenses when handling this product.

Avoid breathing vapors or dusts. Avoid prolonged or repeated exposure.

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