



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 Hydroxide

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

04-27-2006

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 Hydroxide\*, \*\* 1310-73-2 Not Listed 2 mg/m³ Not available

\*Subject to the reporting requirements of SARA Title III Section 313.

\*\*SYNONYMS: Caustic soda; lye.

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Row 1: Boiling Point, 1388 °C (2530 °F), Specific Gravity (H2O = 1), 2.13. Row 2: Vapor Pressure (mm Hg) @ 739 °C, 1 mmHg, Melting Point, 318°C (604 °F). Row 3: Vapor Density (AIR = 1), Not available, Evaporation Rate (Butyl Acetate = 1), Not available.

Solubility in Water

Complete in all proportions

Appearance and Odor

White pellets, flakes, beads or powder.

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.

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, acids, metals and air. Absorbs moisture from air.
	Stable	X		

**Incompatibility Materials to Avoid**

acids, metals and addition of moisture releases heat.

**Hazardous Decomposition or Byproducts**

Sodium oxide.

**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
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**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 and may be fatal.

**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**

Generally aggravated by exposure.

**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 self-contained breathing apparatus, rubber boots and rubber gloves. Shovel spilled material into a suitable dry container. Carefully neutralize spill area with dilute hydrochloric acid. 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. Avoid storage below 0 °C (32 °F) and above 50 °C (122 °F).

**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	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 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. Avoid prolonged or repeated exposure.

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