

Safety Data Sheet

Sodium Hydroxide

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Sodium Hydroxide Indicating Material
Product Part Number(s): 331780
Company: OI Analytical, P.O. Box 9010, College Station, TX 77842-9010,
Phone 979-690-1711, Fax: (979) 690-0440
Emergency No.: **1-800-424-9300 (Chemtrec)**. International: Call CHEMTREC collect 1-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Route(s) of Entry:
Inhalation? 4-Extreme
Skin? 4-Extreme
Ingestion? 3-Severe

Health Hazards (Acute and Chronic):

Corrosive to all body tissue which it comes in contact. The chronic local effect may consist of multiple areas of superficial destruction of the skin. Inhalation of dust may cause varying degrees of irritation.

Carcinogenicity

NTP?	NA	IARC Monographs?	NA
OSHA Regulated?	NA	Not listed as a carcinogen.	

Signs and Symptoms of Exposure: Itching, burning of skin or eyes. Temporary discomfort of breathing passages.

Medical Conditions Generally Aggravated by Exposure: Increased susceptibility to respiratory illness.

Emergency and First Aid Procedures: Flush with water. Seek medical attention. Eyes - flush with large amounts of clean water, followed by boric acid eye wash solution.

2.1 GHS Label Elements:

Hazard pictograms:



SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Proprietary formulation indicating CO₂ Adsorbent

Sodium Hydroxide: CAS #1310-73-2; 90-95%
Non Fibrous Silicate: CAS #1318-00-9; 5-10%

SECTION 4. FIRST AID MEASURES

Inhalation: Supply fresh air. If not breathing, give artificial respiration.

Ingestion: If swallowed, call for doctor immediately. Drink plenty of water and provide fresh air.

Skin contact: Immediately flush skin with plenty of water and soap. Immediately remove any clothing soiled by the product. Wash clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

SECTION 5. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): No flash to 550° F ASTM D-56

Flammable Limits: None flammable

LEL: NA

UEL: NA

Extinguishing Media: Product not combustible. Foam/CO₂ or dry chemical can be used. Direct contact with water can cause a violent exothermic reaction.

Special Fire Fighting Procedures: Protective clothing/self contained breathing apparatus should be worn by fire fighters in area where product is stored.

Unusual Fire and Explosion Hazards: Material is stable (non explosive), nonflammable. Will react with varying degrees of intensity on exposure to water and strong acids.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protections: Do not allow product to reach sewage systems or any water course. Inform authorities in case of seepage into water course or sewage system.

Measures for cleaning/collecting: Use neutralizing agent. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

SECTION 7. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:	Wash area with 1 molar Hydrochloric Acid or use caustic spill kit. Wash with clean water.
Waste Disposal Method:	Appropriate disposal should conform with local and state health regulations.
Precautions to be taken in handling and storing:	Wear protective clothing, use adequate ventilation where dust may be generated.
Other Precautions:	Respirator, eye protection, gloves, lab coat or other clothing to cover exposed skin area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Permissible Exposure Limit (PEL) = 2mg/m³ Ceiling

ACGIH Threshold Limit Value (TLV) = 2mg/m³ Ceiling

Respiratory Protection (Specify, Type): Advantage 3000 Respirator, full face mask, model 3200 Twin Port or NIOSH approved respirator.

Ventilation: Local Exhaust: Exhaust fan Special: NA
Mechanical (General) NA Other: NA

Protective Gloves: Impervious

Eye Protection: Goggles/face shield

Other Protective Clothing or Equipment: Coveralls, chemically resistant shoes.

Work/Hygienic Practices: Wash contaminated clothes; showers and eye wash should be accessible.

SECTION 9. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	@ 760 mm Hg: 1388° C
Vapor Pressure (mm Hg.):	42 mm Hg @ 1000° C
Vapor Density (Air =):	NA
Specific Gravity (H ₂ O = 1):	2.13 @ 20° C
Melting Point:	NA
Evaporation rate (Butyl Acetate = 1):	NA
Solubility in Water:	Completely soluble
Appearance and Odor:	tan, no distinct odor

SECTION 10. REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Contact with water causes strong exothermic reaction. Avoid strong acids contact.
Incompatibility (Materials to Avoid):	Water, strong acids, aluminum, tin, zinc.
Hazardous Decomposition or Byproducts:	Exposure to air results in formation of H ₂ O and carbonate.
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid:	Material not known to polymerize.

SECTION 11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

Skin: Causes chemical burns.

Eye: Causes chemical burns.

Inhalation: Harmful if inhaled. May cause irritation or chemical burns.

Ingestion: Harmful if swallowed, May cause chemical burns to mouth, throat and stomach.

SECTION 12. ECOLOGICAL INFORMATION

Do not empty into drains. Do not allow undiluted product or large quantities to reach ground water, water course, or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

Review federal, state, and local government requirements prior to disposal. Whatever cannot be saved for recovery or recycling should be managed in an appropriate waste facility. Dispose of container and unused contents in accordance with federal, state, and local requirements.

SECTION 14. TRANSPORT INFORMATION

Domestic (Land, DOT)

DOT Shipping name: Sodium Hydroxide, Solid

DOT ID: UN1823

DOT Hazard Class: 8, corrosive, Packaging Group II

IATA

IATA Shipping name: Sodium Hydroxide, Solid

IATA ID: UN1823

IATA Hazard Class: 8, corrosive, Packaging Group II

IATA Instructions - Passenger/cargo - 859, LTD QTY - 844, Cargo only - 863

SECTION 15. REGULATORY INFORMATION

HMIS HAZARD RATINGS: Health Hazard 3; Fire Hazard, 0; Reactivity 2

WHMIS Classification: Class E, Corrosive Material

TSCA: On Toxic Substance Control Inventory

Hazardous Substance: RQ 1000 lbs

SARA TITLE III, 311/312: Acute, Reactive

RCRA: Not Regulated