

Section 1: Identification

Product Name Sodium Hydroxide NF
Commercial Name Not available.
Product Use Not available.
Restrictions On Use Not available.

Product Code 50-1237

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Corrosive to metals: Category 1 Skin Corrosion/Irritation: Category 1A Serious Eye Damage/Eye Irritation:
CFR 1910.1200 Category 1 Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system

Signal Word DANGER

Hazard Statement(s) May be corrosive to metals. Causes severe skin burns and eye damage.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Keep only in original container

Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Spills Absorb spillage to prevent material damage

Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant polypropylene container with a resistant inliner Store in a dry place

Disposal Dispose of contents/container to an approved waste disposal plant

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Sodium Hydroxide NF
% By Weight 100
CAS# 1310-73-2
Molecular Weight 40 g/mole
Chemical Formula NaOH
Synonym(s) Caustic soda; lye; sodium hydroxide solid; sodium hydrate

Mixtures Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Sodium Hydroxide NF	1310-73-2	100	STEL: 2 (mg/m3) from ACGIH (TLV) [United States] TWA: 2 CEIL: 2 (mg/m3) from OSHA (PEL) [United States] CEIL: 2 (mg/m3) from NIOSH	Not available

Section 4: First-Aid Measures

Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing
Ingestion	Do NOT induce vomiting. Immediate medical attention is required. Never give anything by mouth to an unconscious person. Drink plenty of water
Symptoms/Effects	
Acute	Causes burns by all exposure routes. . Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Delayed	Causes burns by all exposure routes. . Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Immediate Medical Attention

Treat symptomatically

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

CO 2, dry chemical, dry sand, alcohol-resistant foam

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire

Products of Combustion

Hydrogen. Sodium oxides

Firefighters Special Equipment and Precautions

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors

Section 6: Accidental Release Measures

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Environmental Precautions: Do not allow material to contaminate ground water system. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information. Methods for Containment and Clean Up: Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

Section 7: Handling and Storage

Handling: Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Strong oxidizing agents. Acids. Metals. Water.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	ACGIH TLV: Ceiling: 2 mg/m3 OSHA PEL: Ceiling: 2 mg/m3, TWA: 2 mg/m3 NIOSH IDLH: IDLH: 10 mg/m3, Ceiling: 2 mg/m3 Mexico OEL (TWA): Ceiling: 2 mg/m3
Engineering Controls	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location

Personal Protection

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tight sealing safety goggles. Face protection shield. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance	White solid. Pellets. Flakes.		
Odor	Odorless.		
Odor Threshold	Not available.		
Melting Point	318 °C / 604.4 °F	pH	14 (5 %)
Freezing Point	Not available.	Vapor Pressure	1 mbar @ 700 °C
Boiling Point/Range	1390 °C / 2534 °F @ 760	Vapor Density	Not available
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available.	Evaporation Rate	Not available.
Flash Point	Not applicable.	Autoignition temperature	Not available.
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	Soluble in water		
Other	Bulk Density 2.13 g/cm3		

Section 10: Stability and Reactivity

Reactivity	Yes
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Incompatible products. Excess heat
Incompatible Materials	Strong oxidizing agents, Acids, Metals, Water
Hazardous Decomposition Products	Hydrogen, Sodium oxides

Section 11: Toxicological Information**RTECS** WB4900000**Acute Toxicity**

LD50 Oral : 140 - 340 mg/kg (Rat) LD50 Dermal: 1350 mg/kg (Rabbit) LC50 Inhalation: Not listed

Skin Corrosion/Irritation

Causes severe burns by all exposure routes

Serious Eye Damage/Irritation

Not available

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Not available

Carcinogenicity

Not available

Reproductive Toxicity

Not available

Routes of Entry

Skin. Oral, Dermal.

Symptoms Related to Exposure

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Potential Health Effects

Not available

Target Organ(s)

Not available

Section 12: Ecological Information**Ecotoxicity**

Do not empty into drains. Large amounts will affect pH and harm aquatic organisms

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available

Bioaccumulative Potential

Not available

Mobility in Soil

Will likely be mobile in the environment due to its water solubility

Other Adverse Effects

Not available

Section 13: Disposal Considerations**Waste Disposal**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Disposal of Container

Not available

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

UN-No UN1823 Proper Shipping Name SODIUM HYDROXIDE, SOLID Hazard Class 8 Packing Group II

Section 15: Regulatory Information**Regulations**

SARA 313 Not applicable SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Component CWA - Hazardous Substances CWA - Reportable Quantities CWA - Toxic Pollutants CWA - Priority Pollutants Sodium hydroxide X 1000 lb - - Clean Air Act Not applicable OSHA - Occupational Safety and Health Administration Not applicable CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) Component Hazardous Substances RQs CERCLA EHS RQs Sodium hydroxide 1000 lb - California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. State Right-to-Know Regulations Component Massachusetts New Jersey Pennsylvania Illinois Rhode Island Sodium hydroxide X X X - X U.S. Department of Transportation Reportable Quantity (RQ): Y DOT Marine Pollutant N DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other

Saf-T-Data: Health: 2 - Moderate (Poison) Flammability: 0 - None Reactivity: 2 - Moderate Contact: 4 - Extreme
(Corrosive) NFPA Ratings: Health: 3 Flammability: 0 Instability: 1

Section 16: Other Information



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Sodium Hydroxide NF

50-1237

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1 Label Hazard Warning: POISON! DANGER! CORROSIVE. MAY BE FATAL IF SWALLOWED. HARMFUL IF CAUSES BURNS TO ANY AREA OF CONTACT. REACTS WITH WATER, ACIDS AND MATERIALS. Label Precautions: Do not get in eyes, on skin, or on clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Label First Aid: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water to an unconscious person. In case of contact, immediately flush eye for 15 minutes while removing contaminated clothing and shoes. Wash clothes in fresh air. If not breathing give artificial respiration. If breathing is difficult, call a doctor immediately. Product Use: Laboratory Reagent. Revision Information: No Changes. Disclaimer: *****

Mallinckrodt Baker, Inc. provides the information contained here as a representation as to its comprehensiveness or accuracy. This document does not constitute an appropriate precautionary handling of the material by a properly trained individual. Individuals receiving the information must exercise their independent judgment as to the appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN. THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM UNREASONABLE RELIANCE UPON THIS INFORMATION.