



Fisher Science Education
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177
Emergency Number: (800) 255-3924

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: S25548, S25548C, S25548D
Product Identity: Sodium Hydroxide, Reagent Grade

Chemical Family: Not Applicable
Synonyms: Caustic soda
Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 06/15/12
Revision Date:

Section 2 – Hazard Identification

Emergency Overview

Causes severe burns by all exposure routes. Water reactive. Hygroscopic.

Appearance: White solid **Odor:** Odorless

Target Organs: Eyes, skin, gastrointestinal tract, respiratory system

Potential Health Effects/ Routes of Exposure:

Eyes: May cause burns, blindness or permanent eye damage.

Skin: May cause burns

Ingestion: May cause burns

Inhalation: May cause burns

Chronic Effect / Carcinogenicity: Prolonged skin contact may defat the skin and produce dermatitis

Aggravated Medical Conditions Skin and preexisting eye disorders

These chemicals are considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Sodium Hydroxide, CAS# 1310-73-2

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician Treat symptomatically

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable **Autoignition Temperature** No information available.

Explosion Limits Upper No data available **Lower** No data available

Extinguishing Media: Use means most suitable for extinguishing surrounding fire.

Unsuitable Extinguishing Media: Carbon dioxide.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information Available

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Rating: (estimated) Health: 3; Flammable: 0; Reactivity: 1

Section 6 – Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Up Sweep up any spill and avoid dust. Keep in suitable and closed containers for disposal

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes. Use in chemical hood.

Storage: Protect from freezing and physical damage. Store as corrosive.

Section 8 – Exposure Controls, Personal Protection

Sodium Hydroxide, CAS# 1310-73-2, ACGIH TLV: 2 mg/m³, OSHA PEL: 2mg/m³

Engineering Measures/ General Hygiene: Use in chemical hood only. Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Use in chemical hood.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: white solid

Odor: Odorless

Boiling Point: 1390 C

Melting Point: 318C

Vapor Density: No information available

Evaporation Rate: No information available

pH: No Information Available

Flammability: No Information Available

Solubility: soluble

available

Relative Density: No Information Available

% Volatility: No Information Available

Specific Gravity: No information available

Vapor Pressure: 1 mbar @ 700C

Flash Point: Not Applicable

Coefficient of water/oil distribution: Not Available

Odor Threshold: Not Available

Decomposition Temperature: No information available

Partition Coefficient n-octanol/water: No data

Molecular Weight: 40

Section 10 – Stability and Reactivity

Chemical Stability: Hygroscopic. Air sensitive

Incompatible Materials: Acids, strong oxidizing agents

Conditions to Avoid: Excess heat, dust formation, incompatible products, exposure to moist air or water

Hazardous Decomposition Products: sodium oxides, hydrogen

Hazardous Polymerization: Does not occur

Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: 1350mg/kg LC50 inhalation-rat: NA

Irritation: Causes severe burns by all exposure routes

Toxicologically Synergistic: No Information Available

Chronic Exposure

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Mutagenic Effects Mutagenic effects have occurred in experimental animals

Reproductive Effects No information available.

Developmental Effects (Immediate/Delayed) No information available.

Teratogenicity No information available.

Other Adverse Effects No information available.

Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: Do not release to environment

Persistence and Degradability: No Information Available

Mobility: No Information Available

Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT – UN1823, Sodium Hydroxide, Solid, 8, II

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are considered hazardous by OSHA.

Canada DSL: These chemicals are listed on Canada's DSL list

TSCA: Not applicable

SARA Title III Section 313: Not Applicable

RCRA Status: Not Applicable

CERCLA Reportable Quantity: Sodium Hydroxide – 1000lb

WHMIS: E: Corrosive Material

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.