

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: S25567
Product Identity: Sodium Silicate, nonahydrate

Chemical Family: Not Applicable

Synonyms: Disodium trioxosilicate nonahydrate; Sodium Meta-silicate, nonahydrate

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: 08/07/12
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Section 2 – Hazard Identification

Emergency Overview

Causes eye, skin, digestive tract and respiratory tract burns. Corrosive to metal in aqueous solutions. May be harmful if swallowed.

Appearance: White solid **Odor:** None reported

Target Organs: Eyes, skin, mucous membranes

Potential Health Effects/ Routes of Exposure:

Eyes: Causes burns. May cause eye irritation, chemical conjunctivitis, and corneal damage.

Skin: Causes skin burns and irritation, especially if the skin is wet or moist.

Ingestion: Causes gastrointestinal tract burns. May cause severe irritation with nausea, and vomiting.

Inhalation: Causes burns to the respiratory tract. May cause irritation of the upper respiratory tract with pain and inflammation.

Chronic Effect / Carcinogenicity: Chronic inhalation may cause effects similar to those of acute inhalation.

Aggravated Medical Conditions No information available

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 metasilicate nonahydrate, CAS# 13517-24-3, 100%

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Get medical attention immediately.

Skin: Flush with water for 15 minutes. Get medical assistance immediately.

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

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

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 any means suitable for extinguishing surrounding fire.
Unsuitable Extinguishing Media: No information available
Fire & Explosion Hazards: Noncombustible.
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: No information available
NFPA Rating: (estimated) Health: 3; Flammable: 0; Reactivity: 0

Section 6 – Accidental Release Measures

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

Environmental Precautions No information available

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

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with clothing, skin and eyes. Use with adequate ventilation. Do not ingest or inhale. Minimize dust generation.

Storage: Keep container tightly closed in a cool, dry, well-ventilated area away from incompatible materials.

Section 8 – Exposure Controls, Personal Protection

Sodium Meta-silicate, nonahydrate, CAS# 13517-24-3, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Normal ventilation is adequate. Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: White solid

Odor: None reported

Boiling Point: No information available

Melting Point: 72C

Vapor Density: No information available

Evaporation Rate: No information available

pH: 12.6 (1% solution)

Flammability: No Information Available

Solubility: Soluble

Relative Density: No Information Available

% Volatility: No Information Available

Specific Gravity: 1.75

Vapor Pressure: No information available

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: Not available

Molecular Weight: 284.19

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Incompatible Materials: Acids, fluorine, Flammable hydrogen gas may be produced on prolonged contact with materials such as aluminum, tin, lead, and zinc.

Conditions to Avoid: Dust generation, excess heat

Hazardous Decomposition Products: Silicon dioxide, oxides of sodium

Hazardous Polymerization: Does not occur

Hazardous Reactions: No information available

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: 847mg/kg

LC50 inhalation-rat: NA

Irritation: No Information Available

Toxicologically Synergistic: No Information Available

Chronic Exposure

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Mutagenic Effects No information available

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 waste 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 – UN3253, Disodium Trioxosilicate, 8, III

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: These chemicals are listed on TSCA inventory.

SARA Title III Section 313: Not Applicable.

RCRA Status: Not Applicable

CERCLA Reportable Quantity: Not applicable

WHMIS: E

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.