

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Sodium Metasilicate, Anhydrous

PRODUCT NUMBER: S7834

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

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EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only

1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H290 – Corrosive to metals (Category 1)

H314 – Skin corrosion (Category 1B)

H318 – Serious eye damage (Category 1)

H335 – Specific target organ toxicity – single exposure – Respiratory system (Category 3)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: Danger

Hazard Statements:

H290 - May be corrosive to metals.

H314 – Causes severe skin burns and eye damage.

H335 – May cause respiratory irritation.

Precautionary Statements:

P260 – Do not breathe dust.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 – Immediately call a POISON CENTER or

doctor/physician.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Disodium metasilicate, Disodium silicate, Sodium silicate, Sodiu

CAS No.: 6834-92-0Formula: Na_2SiO_3 Molecular Weight: 122.06 g/mol EC No.: 229-912-9

Ingredient	CAS Number	Percent	Hazardous
Sodium Metasilicate	6834-92-0	96 %	No exposure limits established by OSHA or ACGIH

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4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

First Aid Procedures Route of Entry Symptoms Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Safely remove victim to fresh air. If not breathing, institute Inhalation May cause irritation to respiratory cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. **Eye Contact** Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15 May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to blurred vision. ensure thorough rinsing. Get medical attention if irritation persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation itching or inflammation.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

persists.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Sodium oxides, silicon oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Hygroscopic.

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Incompatibilities: Strong acids, Lead, Tin/tin oxides, Zinc, Aluminum

Recommended Storage Temperature: Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Appropriate respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White Crystals pH: No data available

Solubility: Partially Soluble in Water

Melting Point: 1,090 °C (1,994 °F) Vapor Density: No data available

Vapor Pressure: 0.0103 hPa (0.0077 mmHg) at 1,175 °C (2,147 °F)

Odor: No data available
Odor Threshold: No data available
Viscosity: No data available

Relative Density: 2.61 g/cm3 at 20 °C (68 °F) Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range: No data available

Flammability (solid, gas): No data available
Partition coefficient:
n-octanol/water): No data available

Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Moisture

Incompatibles Materials: Strong acids, Lead, Tin/tin oxides, Zinc, Aluminum

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

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11. TOXICOLOGICAL INFORMATION

Toxicity: LD_{50} (Oral-Rat)(mg/Kg): 1,152

LD₅₀ (Oral-Mouse)(mg/Kg): No data available LD₅₀ (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with

Overexposure:

Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory

tract, eyes, and skin.

Specific Target Organ

Toxicity:

Single Exposure: Inhalation - May cause respiratory irritation.

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions

Aggravated By Exposure:

None identified

D : CE :

Routes of Entry: Inhalation, Ingestion

NIOSH/RTECS NO: VV9275000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - 210 mg/l - 96 h

(ISO 7346/1)

Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: Disodium trioxosilicate

Hazard Class: 8

UN: 3253 Packing group: III

Marine pollutant: No Poison inhalation hazard: No

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International:

IMDG: Proper Shipping Name: DISODIUM TRIOXOSILICATE

Hazard Class: 8

UN: 3253 Packing group: III EMS-No.: F-A, S-B

Marine pollutant: No

IATA: Proper Shipping Name: Disodium trioxosilicate

Hazard Class: 8

UN: 3253 Packing group: III

15. REGULATORY INFORMATION

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 6834-92-0 Disodium metasilicate

New Jersey Right to Know Components: CAS No.: 6834-92-0 Disodium metasilicate

California Prop. 65 Components: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

Flammahility

Physical Hazard

16. OTHER INFORMATION

NFPA Rating:

HMIS Rating: Health Hazard Chronic Health Hazard

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3		0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
3	0	0	

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