

SAFETY DATA SHEET

Creation Date 10-Dec-2010 Revision Date 18-Jan-2018 Revision Number 5

1. Identification

Product Name Sodium metasilicate

Cat No. : C7565

CAS-No 6834-92-0

Synonyms Disodium metasilicate; Disodium trioxosilicate.

Recommended Use Laboratory chemicals.

Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel: 512-668-9918

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals

Skin Corrosion/irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Category 1

Category 1

Category 3

Target Organs - Respiratory system.

Label Elements

Signal Word

Danger

Hazard Statements

May be corrosive to metals Causes severe skin burns and eye damage May cause respiratory irritation

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Precautionary Statements

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

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Sodium metasilicate pentahydrate	10213-79-3	
Sodium metasilicate	6834-92-0	100

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

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.

Skin ContactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Call a physician immediately.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison

Control Center immediately. Do not use mouth-to-mouth method if victim ingested or

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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.

Immediate medical attention is required. Do not induce vomiting. Drink plenty of water. Ingestion

Never give anything by mouth to an unconscious person.

Most important symptoms and

effects

Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Product is a corrosive material. Use of gastric

lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated

Treat symptomatically **Notes to Physician**

Fire-fighting measures

CO₂, dry chemical, dry sand, alcohol-resistant foam. Suitable Extinguishing Media

No information available **Unsuitable Extinguishing Media**

Flash Point Not applicable

No information available Method -

Autoignition Temperature

Explosion Limits

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

11--14

None known

Protective Equipment and Precautions for Firefighters

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.

NFPA

пеанн	riammability	instability	Physical nazarus
3	1	0	N/A

6. Accidental release measures

Use personal protective equipment. Evacuate personnel to safe areas. Avoid contact with **Personal Precautions**

skin, eyes and clothing.

Clammability

Should not be released into the environment. Do not allow material to contaminate ground **Environmental Precautions**

water system.

Up

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

Inotability.

Discosta al la accasada

formation.

7. Handling and storage						
Handling	Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest.					
Ctorono	Kan contained tighthy placed in a dry cool and well yentileted place. Conserves and De					

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Do not store in aluminum containers.

8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure **Exposure Guidelines**

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limitsestablished by the region specific regulatory bodies.

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers **Engineering Measures**

are close to the workstation location.

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection**

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Long sleeved clothing.

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.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures**

9. Physical and chemical properties

Physical State Solid White **Appearance** Odor Odorless

No information available **Odor Threshold**

рΗ 12.6 (1%) Melting Point/Range 72 °C / 161.6 °F

Boiling Point/Range No information available Flash Point

Not applicable **Evaporation Rate** Not applicable

No information available Flammability (solid,gas)

Flammability or explosive limits

Upper No data available Lower No data available **Vapor Pressure** No information available

Vapor Density Not applicable

Specific Gravity No information available

Solubility Soluble in water Partition coefficient; n-octanol/water No data available

Autoignition Temperature

No information available **Decomposition Temperature**

Viscosity Not applicable Molecular Formula Na2SiO3.5H2O

Molecular Weight 212.74

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stable under normal conditions. Stability

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous polymerization does not occur. **Hazardous Polymerization**

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Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium metasilicate pentahydrate	LD50 = 847 mg/kg (Rat)	Not listed	Not listed
Sodium metasilicate	LD50 = 1153 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Causes burns by all exposure routes Irritation

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium metasilicate	10213-79-3	Not listed				
pentahydrate						
Sodium metasilicate	6834-92-0	Not listed				

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system STOT - repeated exposure None known

No information available **Aspiration hazard**

delayed

Symptoms / effects,both acute and Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Product is a corrosive material. Use of gastric lavage or emesis is

contraindicated. Possible perforation of stomach or esophagus should be investigated

No information available **Endocrine Disruptor Information**

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium metasilicate	Not listed	LC50 = 210 mg/L, 96h (Brachydanio rerio) LC50 = 210 mg/L, 96h semi-static (Brachydanio rerio)	Not listed	EC50 = 216 mg/L, 96h (Daphnia magna)

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

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Mobility

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

13. Disposal considerations

Waste Disposal Methods

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.

14. Transport information

DOT

UN-No UN3253

Proper Shipping Name DISODIUM TRIOXOSILICATE

Hazard Class 8
Packing Group

TDG

UN-No UN3253

Proper Shipping Name DISODIUM TRIOXOSILICATE

Hazard Class 8
Packing Group III

IATA

UN-No UN3253

Proper Shipping Name Disodium trioxosilicate

Hazard Class 8
Packing Group III

IMDG/IMO

UN-No UN3253

Proper Shipping Name Disodium trioxosilicate

Hazard Class 8
Packing Group III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium metasilicate	-	-	-	-	-		Х	-	-	Х	-
pentahydrate											
Sodium metasilicate	Χ	Χ	-	229-912-9	1		Χ	Χ	Χ	Χ	Χ

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

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SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

Not applicable

U.S. State Right-to-Know

Regulations

guiations

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS