



SAFETY DATA SHEET

Preparation Date: 8/16/2017 Revision Date: 8/16/2017 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: S1433

Product Name: SODIUM SILICATE, PENTAHYDRATE, GRANULAR, PRACTICAL

Other means of identification

Synonyms: Silicic acid (H2SiO2), disodium salt, pentahydrate

Sodium metasilicate pentahydrate

CAS #: 10213-79-3 RTECS # VV9287500 CI#: Not available

Recommended use of the chemical and restrictions on use Recommended use:

No information available.

Uses advised against

No information available

Supplier: Spectrum Chemical Mfg. Corp 14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000.

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

Label elements

Danger

Hazard statements

Harmful if swallowed

Causes severe skin burns and eye damage

May cause respiratory irritation
May be corrosive to metals

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Keep only in original container

Absorb spillage to prevent material damage.

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

Absorb spillage to prevent material damage

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Sodium meta-Silicate, Pentahydrate	10213-79-3	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s)

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involved and take precautions to protect themselves. First aider needs to protect

himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water

for at least 15 minutes. Immediate medical attention is required. Call a physician or Poison

Control Centre immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a

physician immediately.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. WARNING! It may be hazardous to the person providing aid to give

mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Immediate medical attention is required. Call a physician or Poison

Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Severe skin and eye irritation or burns. Causes digestive (gastrointestinal) tract irritation.

May cause gastrointestinal (digestive) tract burns. Can burn mouth, throat, and stomach.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Product code: S1433

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: No information available.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Use

personal protective equipment. Avoid contact with skin, eyes and clothing.

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

Do not flush into surface water or sanitary sewer system. Prevent entry into

waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Strong acids Aluminum Zinc galvanized iron Fluorine

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

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Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium meta-Silicate,	10213-79-3	None	None	None	None
Pentahydrate					

Canada

Components	CAS-No.	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
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			Columbia		
Sodium meta-Silicate, Pentahydrate	10213-79-3	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Sodium meta-Silicate, Pentahydrate	10213-79-3	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Skin and body protection: Chemical resistant apron

Long sleeved clothing

Gloves

Respiratory protection: In well ventilated areas or if used in a fume hood, respiratory protection is not

normally required. In case of insufficient ventilation wear suitable respiratory equipment. Use a dust respirator under conditions where exposure to the

substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering

controls are not feasible. Be sure to use an approved/certified respirator or

equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color: Granular, Granules, White. Solid

Odor: **Taste** Formula: No information available. Odorless. NaSiO3.5H2O

Molecular/Formula weight: Flammability: Flashpoint (°C/°F): 212.15 No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): **Lower Explosion Limit (%):** Not available

No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

72-73°C/162-163.4 °F No information available No information available

Boiling point/range(°C/°F):

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PRACTICAL

No information available Bulk density: Density (g/cm3):

No information available
No information available

Vapor pressure @ 20°C (kPa):

VOC content (g/L):

Specific gravity: pH:

1.75 No information available No information available

Evaporation rate: Vapor density:

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility: Soluble in Water

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Incompatible Materials: Strong acids

Aluminum

Zinc

galvanized iron

Fluorine

Hazardous decomposition

products:

No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: Severe corrosive effect on brass and bronze.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Ingestion. Inhalation.

Acute Toxicity

Component Information

Sodium meta-Silicate, Pentahydrate	
CAS-No.	10213-79-3

LD50/oral/rat = 847 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No infomation available
Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 847 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Severe skin irritation. Causes skin burns. Can cause redness and pain.

Eye Contact: Severe eye irritation. Causes conjunctivitis. Redness and pain. Causes

lacrimation. Causes eye burns. May cause corneal opacity. May cause corneal damage. Corrosive to the eyes and may cause severe damage including

blindness.

Inhalation Irritating to respiratory system. May cause chemical burns to the respiratory tract.

Ingestion Harmful if swallowed. Corrosive to the mouth, throat, and stomach. Causes severe

digestive tract irritation with possible burns. May cause severe and permanent damage to the digestive tract. May cause perforation of the digestive tract. May cause oral ulceration. May cause difficulty swallowing. Ingestion may cause nausea, vomiting. May cause abdominal pain. May cause ulceration or perforation of the gastrointestinal tract. May cause ulceration or bleeding from the stomach.

May cause ulceration or bleeding from the deodenum.

Aspiration hazard No information available.

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

Chronic Toxicity Prolonged or repeated ingestion may affect the kidneys.

Sensitization: No information available.

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Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium meta-Silicate, Pentahydrate	10213-79-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure Target Organs: No information available. No information available. No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series	RCRA - K Series	RCRA - P Series	RCRA - U Series	
		Wastes	Wastes	Wastes	Wastes	

Sodium meta-Silicate,	10213-79-3	None	None	None	None
Pentahydrate					

14. TRANSPORT INFORMATION

DOT

UN-No: UN3253

Proper Shipping Name: Disodium trioxosilicate

Hazard Class: 8

Subsidiary Class No information available

Packing group: III Emergency Response Guide 154

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsIB8, IP3, T1, TP33Symbol(s):No information available

Description: UN3253, Disodium trioxosilicate, 8, III

TDG (Canada)

UN-No: UN3253

Proper Shipping Name: Disodium trioxosilicate

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN3253, Disodium trioxosilicate, 8, III

ADR

UN-No: UN3253

Proper Shipping Name: Disodium trioxosilicate

Hazard Class: 8
Packing Group: |||

Subsidiary Risk: No information available

Description: UN3253, Disodium trioxosilicate, 8, III

IMO / IMDG

UN-No: UN3253

Proper Shipping Name: Disodium trioxosilicate

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A

Description UN3253, Disodium trioxosilicate, 8, III

RID

UN-No: UN3253

Proper Shipping Name: Disodium trioxosilicate

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description: UN3253, Disodium trioxosilicate, 8, III

ICAO

UN-No: UN3253

Proper Shipping Name: Disodium trioxosilicate

Hazard Class:

Subsidiary Risk: No information available

Packing Group:

Description: UN3253, Disodium trioxosilicate, 8, III

IATA

UN-No: UN3253

Proper Shipping Name: Disodium trioxosilicate

Hazard Class:

Subsidiary Risk: No information available

Packing Group: Ш ERG Code: 8L

Special Provisions No information available

Description: UN3253, Disodium trioxosilicate, 8, III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium meta-Silicate, Pentahydrate	10213-79-3	Not Listed	Not present	Present	Present (1)-508	Present	Not present	Not present

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Sodium meta-Silicate, Pentahydrate	10213-79-3	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Sodium meta-Silicate, Pentahydrate	10213-79-3	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium meta-Silicate, Pentahydrate	10213-79-3	Not Applicable	Not Applicable

Canada

Product code: S1433 Product name: SODIUM SILICATE, PENTAHYDRATE, GRANULAR,

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

E Corrosive material

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Sodium meta-Silicate, Pentahydrate	10213-79-3	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances	
Sodium meta-Silicate, Pentahydrate	10213-79-3	Not listed	
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject	
		to Mandatory Reporting	
Sodium meta-Silicate, Pentahydrate	10213-79-3	Not listed	

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Sodium meta-Silicate, Pentahydrate	10213-79-3	

EU - CLP (1272/2008)

R-phrase(s)

R34 - Causes burns.

R22 - Harmful if swallowed.

R37 - Irritating to respiratory system.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Sodium meta-Silicate, Pentahydrate	10213-79-3		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

C - Corrosive. Xn - Harmful.

Xi - Irritant.







16. OTHER INFORMATION

Preparation Date: 8/16/2017
Revision Date: 8/16/2017
Prepared by: Sonia Owen

Disclaimer:

Product code: S1433

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet