

SAFETY DATA SHEET

POTASSIUM SILICATE LIQUID

SECTION 1. CHEMICAL PRODUCT

Product Synonyms: TETRASODIUM ORTHOSILICATE; SILICIC ACID, TETRA SODIUM SALT; TETRASODIUM SILICATE; SILICIC ACID (H₄SiO₄), SODIUM SALT (1:4)

Substance name POTASSIUM SILICATE,

Chemical family Inorganic Family

SECTION 2. HAZARDS IDENTIFICATION:

GHS classification
Classification of the substance or mixture
Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1



Signal Word

Hazard Statements

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

Precautionary Statements Prevention

P264 - Wash hands and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area

Response

P301+P312 - IF SWALLOWED: Call a poison CENTER or doctor if you feel unwell
P330 - Rinse mouth

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P363 - Wash contaminated clothing before reuse

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor

P321 - Specific treatment (see supplemental first aid instructions on this label)

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P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312-Call a POISON CENTER or doctor if you feel unwell.

Storage

P405-Store locked up.

P403+P233-Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501-Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	Common Name	CAS No	(EC-No.)	Weight%
Potassium silicate	No information available	1312-76-1	215-687-4	30-50
Water		7732-18-5	231-791-2	70-50

SECTION 4: FIRST AID MEASURES

Description of 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 Contact

Wash off immediately with soap and plenty of water while removing contaminated clothes and shoes. Call a physician immediately.

Ingestion

Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

Inhalation

Remove 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 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.

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SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing

Media

CO₂, dry chemical, dry sand, alcohol- resistant foam.

Unsuitable extinguishing media- Do not use extinguishing media containing water.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

No additional information available.

Advice for fire-fighters-Protection during firefighting

Do not attempt to take action without suitable protective equipment

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Avoid contact with skin, eyes and clothing.

For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

Environmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up : Clean up immediately by sweeping or vacuum. Clean contaminated surfaces with an excess of water.

Reference to other sections

No additional information available

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing.. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

Hygiene measures

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work

Conditions for Safe Storage, Including any Incompatibilities

Store in original container. Keep container tightly closed

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No additional information available

Exposure Controls

Personal protective equipment

Eye Protection

Hand Protection

Skin and body protection

Goggles

Protective gloves

Long sleeved clothing

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (Physical State, Color) Liquid, Clear colorless viscous.

Odor Odorless

Odor Threshold No data available

pH 11-12

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.39 g/cm³

Solubility : Water: Soluble in water

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

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SECTION 10: STABILITY AND REACTIVITY

Reactivity	No additional information available
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	No additional information available
Hazardous Polymerization	No information available.
Hazardous Reactions	No additional information available
Conditions to avoid	Direct sunlight.
Incompatible Materials	No additional information available
Hazardous Decomposition Products	No additional information available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	: Not classified
Irritation	: Not classified
Ph	: 11 - 12
Corrosively	: Not classified
Sensitizations	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

No additional information available

Persistence and degradability

Persistence Soluble in water.

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Other adverse effects

No information available

Results of PBT and vPvB assessment No additional information available

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Sewage disposal recommendations
Waste disposal recommendations

Ecology - waste materials

Do not dispose of waste into sewer.
Landfill. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Avoid release to the environment

SECTION 14: TRANSPORT INFORMATION

DOT UN Status: This material is not regulated hazardous material for transportation.

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

SECTION 15: REGULATORY INFORMATION

TSCA: All ingredients of this material are listed on the TSCA inventory.

FDA: The use of sodium Ortho silicate is authorized by FDA as a boiler water additive for the production of steam that will contact food pursuant to 21 CFR and as a GRAS substance pursuant to 21 CFR for use in washing and lye peeling of fruits, vegetables, and nuts; as a denuding agent for tripe; a hog scald agent in removing hair; and as a corrosion preventative in canned and bottled water

SECTION 16: OTHER INFORMATION

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

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