

SAFETY DATA SHEET

LITHIUM SILICATE LIQUID

SECTION 1. IDENTIFICATION:

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

Substance name Lithium 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 P

270-Do not eat, drink or smoke when using this product P260

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

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

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

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	CAS No	(EC-No.)	Weight%
Silicic acid, lithium salt	12627-14-4	215-687-4	10-20

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.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Water, Carbon dioxide (CO₂)

UNSUITABLE EXTINGUISHING MEDIA: None in particular

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Do not inhale explosion and combustion gases, burning produces heavy smoke.

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SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS: In case of accident or un wellness, seek medical advice immediately (show directions for use or safety data sheet is possible).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment removes persons to safety. See protective measures under point 7 and 8.

Methods and materials for containment and clean up

Suitable material for taking up: absorbing material, organic, sand. Wash with plenty of water.

SECTION 7: HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING:

Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.

CONDITIONS FOR SAFE STORAGE: Adequately ventilated premises.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name / CAS No	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Silicic acid, lithium salt 12627-14-4	Not Established	Not Established	Not Established

CONTROL PARAMETERS: N/A

Individual protection measures, such as personal protective equipment

EYE/FACE PROTECTION: Wear safety glasses or safety goggles, don't use eye lens.

Other Exposure Limits Not Established

SKIN PROTECTION: Use clothing that provides comprehensive protection to the skin, e.g cotton rubber, P.V.C or viton.

HANDS PROTECTION: Use protective glove that provides comprehensive protection, e.g. P.V.C, neoprene or rubber

RESPIRATORY PROTECTION: Use adequate protective respiratory equipment

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SECTION 9 : - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid	Odor	: Odor less
Odor threshold	: NA	PH	: 10-11
Melting point	: N/A	Boiling point	: 100 °C
Flash Pt (F/C)	: NA	Evaporation rate	: NA
Flammability (solid, gas)	: NA	LEL/UEL	: NA
Vapor pressure	: NA	Vapor density	: 2.1
Relative density	: 1.11	Solubility	: Soluble
Partition coefficient	: NA	Autoignition temp	: NA
Decomposition temp	: N/A	Viscosity cp	: 7-30

SECTION 10: STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Stable under normal conditions

REACTIVITY: Stable under normal conditions

POSSIBILITY OF HAZARDOUS REACTIONS: None

INCOMPATIBLE MATERIALS: None

HAZARDOUS DESCOMPOSITION PRODUCTS: None

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Direct contact and vapor inhalation.

Eye contact Direct contact.

Skin contact Direct contact.

Ingestion Direct contac

Information on toxicological effects

Symptoms - May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation

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

Skin corrosion/irritation Irritating to skin.

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Serious eye damage/eye irritation Irritating to eyes., respiratory system and skin.

Sensitization No data available.

Germ cell mutagenicity No data available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC

Reproductive toxicity Not Available.

STOT - single exposure Not Available.

STOT - repeated exposure Not Available.

Aspiration hazard Not Available

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

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Sewage disposal recommendations

Do not dispose of waste into sewer.

Waste disposal recommendations

Landfill. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.

Ecology - waste materials

Avoid release to the environment

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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

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SECTION 15: REGULATORY INFORMATION

US federal regulations .

SARA 302 Extremely hazardous substance Not listed.

SARA 304 Emergency release notification Not listed

SARA 311/312 Hazard Categories

Immediate Hazard - No

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

SARA 313 (TRI reporting) Not listed.

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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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