

LTS Research Laboratories, Inc. Safety Data Sheet Lithium Silicate

	1. Product and Company Identification
Trade Name:	Lithium Silicate
Chemical Formula:	Li ₄ SiO ₄
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	2001 Oaks Pkwy
City:	Belmont
State:	North Carolina
Zip Code:	28012
Country:	USA
Tel #:	855-587-2436 / 855-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Warning
	LTL • search sonatories, inc.
Hazard Statements:	H315: Causes skin irritation H320: Causes eye irritation
	H320: Causes eye irritation H335: May cause respiratory irritation
Hazard Statements: Precautionary Statements:	H320: Causes eye irritationH335: May cause respiratory irritationP261: Avoid breathing dust/fume/gas/mist/vapors/sprayP280: Wear protective gloves/protective clothing/eye protection/face
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at respiratory
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at res in a position comfortable for breathing
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at resin a position comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at resin a position comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at resin a position comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at resin a position comfortable for breathing 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/physician if you feel unwell
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at res in a position comfortable for breathing 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/physician if you feel unwell P420: Store away from other materials
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at res in a position comfortable for breathing 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/physician if you feel unwell P420: Store away from other materials
Precautionary Statements:	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at resin a position comfortable for breathing 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/physician if you feel unwell P420: Store away from other materials P501: Dispose of contents/container in accordance with local/regional.
	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at resin a position comfortable for breathing 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/physician if you feel unwell P420: Store away from other materials P501: Dispose of contents/container in accordance with local/regional.
Precautionary Statements: HMIS Health Ratings (0-4):	 H320: Causes eye irritation H335: May cause respiratory irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at res in a position comfortable for breathing 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/physician if you feel unwell P420: Store away from other materials P501: Dispose of contents/container in accordance with local/regional/national/international regulations

3. Composition			
Chemical Family:	Oxide		
Additional Names:	None		
Lithium Silicate (Li ₄ SiO ₄)			
Percentage:	100 wt%		
CAS #:	13453-84-4		
EC #:	236-634-1		
	4. First Aid Procedures		
General Treatment:	Seek medical attention if symptoms persist.		
Special Treatment:	None		
Important Symptoms:	N/A		
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.		
	Seek medical attention.		
Ingestion:	Rinse mouth with water. Do not induce vomiting. Seek medical		
Skin:	attention. Weak affected area with mild scen and water. Berrows any		
SKIII.	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention.		
Eyes:	Flush eyes with water, blinking often for several minutes. Remove		
Lycs.	contact lenses if present and easy to do. Continue rinsing. Seek medica		
	attention.		
	5. Firefighting Measures		
– Flammability:	Non-flammable Research		
	and a state of the		
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for		
	surrounding material and type of fire. Do not use water for metal fires		
	use CO ₂ , sand, extinguishing powder.		
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective		
	clothing to prevent contact with skin and eyes. See section 10 for		
	decomposition products.		
	6. Accidental Release Measures		
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in		
	special protection information. Isolate spill area and provide		
	ventilation. Vacuum up spill using a high efficiency particulate		
	absolute (HEPA) air filter and place in a closed container for disposal.		
En income (1 December 1)	Take care not to raise dust.		
Environmental Precautions:	Isolate runoff to prevent environmental pollution.		
	7. Handling and Storage		
Handling Conditions:	Wash thoroughly after handling.		
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from		
XX/X/	materials and conditions listed in section 10.		
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before		
	eating and smoking. Do not blow dust off clothing or skin with compressed air.		
	CONDUCTION AND		
Ventilation:	Provide sufficient ventilation to maintain concentration at or below		

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves	
Totective Gloves.	Check gloves prior to each use	
Euo Protection:	Safety glasses or goggles	
Eye Protection: Body Protection:	Protective work clothing. Wear close-toed shoes and long	
Body Protection.	sleeves/pants.	
9. Pl	hysical and Chemical Characteristics	
Color	N/A	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	N/A	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	1256 °C	
Flash Point:	N/A	
	N/A N/A	
Autoignition Temperature:		
Density: Melecular meight:	N/A	
Molecular weight:	119.84 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	N/A horatorias inc.	
Incompatible Conditions:	N/A	
Hazardous Decomposition Products:	N/A	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	N/A	
Persistent Bioaccumulation Toxicity:	N/A	
Very Persistent, Very Bioaccumulative:	N/A	
Notes:	N/A	

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data			
Hazardous:	Not hazardous for transportation		
Hazard Class:	N/A		
Packing Group:	N/A		
UN Number:	N/A		
Proper Shipping Name:	N/A		
	15. Regulatory Information		
Sec 302 Extremely Hazardous:	No	<u> </u>	
Sec 304 Reportable Quantities:	N/A		
Sec 313 Toxic Chemicals:	No		

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised:

09/07/2023

