

LTS Research Laboratories, Inc. Safety Data Sheet Silicon Dioxide – Sodium Oxide

1. Product and Company Identification Trade Name: Silicon dioxide sodium oxide Chemical Formula: SiO₂/Na₂O Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. Street: 37 Ramland Road City: Orangeburg New York State: 10962 Zip Code: 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: Danger Hazard Statements: H302: Harmful if swallowed H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation H350: May cause cancer H373: May cause damage to organs through prolonged or repeated exposure **Precautionary Statements:** P260: Do not breathe dust/fume/gas/mist/vapours/spray P303+P361+P353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405: Store locked up. P501: Dispose of contents/container in accordance with local/regional/national/international regulations. HMIS Health Ratings (0-4): Health: 3 0 Flammability: Physical: 1

3. Composition		
Chemical Family:	Ceramic	
Additional Names:	Soda glass, Soda silica glass, Soda lime	
Silicon Oxide (SiO ₂):		
Percentage:	50-100 wt%	
CAS #:	7631-86-9	
EC #:	231-545-4	
Sodium Oxide (Na ₂ O):	251 575 7	
Percentage:	0-50 wt%	
CAS #:	1313-59-3	
EC #:	215-208-9	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Ingestion:	Seek Medical Attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
~~~~~	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing	
	contact lenses if present and easy to do. Continue finsing	
	5. Firefighting Measures	
	Non-flammable bonatorias, Inc.	
Extinguishing Modia:	No special restrictions – use suitable extinguishing agent for	
Extinguishing Media:	surrounding material and type of fire.	
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	
	Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
Environmental Flecautions.	isolate funori to prevent environmental pollution.	
	7. Handling and Storage	
	Wash thoroughly after handling.	
Handling Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from	
Storage Conditions:	store in a coor ary place in a again, searce container store apart non	
	materials and conditions listed in section 10.	
Storage Conditions:	materials and conditions listed in section 10.	
	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before	
Storage Conditions:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with	
Storage Conditions:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	None	
Threshold Limit Value:	0.025 mg/m ³ as Silicon dioxide respirable fraction, long-term value	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.	
9.	Physical and Chemical Characteristics	
Color	White to Offwhite	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A N/A	
Density:	N/A	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	None	
Incompatible Conditions:	None konstories inc.	
Hazardous Decomposition Products:	Silicon Oxide	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause burns	
Skin:	May cause burns	
Ingestion:	Swallowing will lead to a strong corrosive effect on mouth and	
C C	throat and to the danger of perforation of esophagus and stomach	
Inhalation:	May cause burns	
Chronic:	May cause damage to the lung, the spleen, the blood and the endocrine	
	system through prolonged or repeated exposure.	
	Route of exposure: Inhalative	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	<ul> <li>IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity.</li> <li>ACGIH A2: Suspected human carcinogen: Agent is carcinogenic in experimental animals at dose levels, by routes of administration, at sites, of histologic types, or by mechanisms considered relevant to worker exposure. Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans. NTP-K: Known to be carcinogenic: sufficient evidence from human studies.</li> </ul>	

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only.
	CORROSIVE 8
Hazard Class:	8 Corrosive substances
Packing Group:	III
UN Number:	UN1907
Proper Shipping Name:	Soda lime
Segregation group:	Alkalis
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No CResearch
Sec 304 Reportable Quantities:	N/A 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.

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