

## LTS Research Laboratories, Inc. Safety Data Sheet Silicon Carbide - Silicon

1. Product and Company Identification	
Trade Name:	Silicon carbide - silicon
Chemical Formula:	SiC-Si
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
Zip Code:	10962 US A
Country: Tel #:	USA 845-587-2436 / 845-lts-chem
101#.	645-567-24507 645-IIS-CHEIII
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Warning
	LTG research
Hazard Statements:	H315 Causes skin irritation
	H319 Causes serious eye irritation
Precautionary Statements:	P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes
HMIS Health Ratings (0-4):	
Health:	1
Flammability:	0
Physical:	0
	3. Composition
	Ceramic
Chemical Family:	
Chemical Family: Additional Names:	N/A
Additional Names: Silicon carbide (SiC):	N/A
Additional Names: Silicon carbide (SiC): Percentage:	N/A 0-100 wt%
Additional Names: Silicon carbide (SiC): Percentage: CAS #:	N/A 0-100 wt% 409-21-2
Additional Names: Silicon carbide (SiC): Percentage: CAS #: EC #:	N/A 0-100 wt%
Additional Names: Silicon carbide (SiC): Percentage: CAS #: EC #: Silicon (Si):	N/A 0-100 wt% 409-21-2 206-991-8
Additional Names: Silicon carbide (SiC): Percentage: CAS #: EC #:	N/A 0-100 wt% 409-21-2

	4. First Aid Procedures
General Treatment: Special Treatment:	Seek medical attention if symptoms persist. None
Important Symptoms:	None
Inhalation: Ingestion:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Give one to two glasses of water and induce vomiting. Never induce
Skin:	vomiting or give anything by mouth to an unconscious person. 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
	5. Fire and Explosion Hazards Data
Flammability:	Non-flammable
Flash Point:	N/A
Autoignition Temperature:	N/A
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.
	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.
	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
Work/Hygienic Maintenance:	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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits:	5 mg/m <sup>3</sup> as SiC, non-fibrous respirable fraction
Threshold Limit Value:	15 mg/m <sup>3</sup> as SiC, non-fibrous total dust 10 mg/m <sup>3</sup> as SiC, non-fibrous
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	Dark grey, Dark green, Metallic	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	2730 °C as SiC	
Density:	N/A	
Molecular weight:	N/A	
	10. Reactivity	
	Stable under recommended storage conditions	
Reacts With:	None	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause serious irritation	
Skin:	May cause irritation	
Ingestion:	Low absorption	
Inhalation:	May cause irritation	
Chronic:	N/A	
emonie.		
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A Basabab	
Aggravated Medical Conditions.	AVA C-AResearch	
Maller Latel Dece	N/A	
Median Lethal Dose:	N/A	
Construction	An exercise of 52 cilians exhibits marked about 15 even of	
Carcinogen:	An examination of 53 silicon carbide crushers showed 15 cases of	
	pneumoconiosis in workers employed on the crushing, sieving and	
	packing of silicon carbide have been reported	
	12. Ecological Information	
Ecological data is not available.		
	13. Disposal Considerations	
Dispose of in accordance with local, stat	e, 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	
	No	
Sec 302 Extremely Hazardous:		
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	N/A	

## 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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