

LTS Research Laboratories, Inc. Safety Data Sheet Silicon Chloride (SiCl4)

1. Product and Company Identification Trade Name: Silicon Chloride Chemical Formula: SiCl₄ Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. 37 Ramland Road Street: City: Orangeburg State: New York 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 H314: Causes severe skin burns and eye damage Hazard Statements: H335: May cause respiratory irritation H301+H331: Toxic if swallowed or if inhaled **Precautionary Statements:** P260: Do not breathe dust/fume/gas/mist/vapors/spray P264: Wash face, hands, and any exposed skin thoroughly after handling P270: Do not eat, drink, or smoke when using this product P271: Use only outdoors or in a well-ventilated area P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell 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 rest 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 P363: Wash contaminated clothing before reuse P403+P233: Store in a well-ventilated place. Keep container tightly closed P405: Store locked up

HMIS Health Ratings (0-4):
Health:
Flammability:
Physical:

	3. Composition
Chemical Family:	Inorganic Compound
Additional Names:	Silicon tetrachloride; Tetrachlorosilane
Silicon Chloride (SiCl4)	
Percentage:	100 wt%
CAS #:	10026-04-7
EC #:	233-054-0
	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:	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
SKIII.	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Use CO ₂ , Dry chemical, Chemical foam.
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.
	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
work/rrygienie mannenance.	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.

8. Exp	osure 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
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
9. Pl	hysical and Chemical Characteristics
Color	N/A
Form:	Liquid
Odor:	Stench
Water Solubility:	N/A
Boiling Point:	58 °C
Melting Point:	-70 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	169.9 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents, Strong acids, Strong bases, Alcohols, Metals
Incompatible Conditions:	Exposure to moist air or water
Hazardous Decomposition Products:	Silicon Dioxide, Hydrogen Chloride gas
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes severe damage
Skin:	Causes severe burns
Ingestion:	Toxic if swallowed
Inhalation:	Toxic if inhaled
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	238 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
	N/A
Notes:	

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

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egulatory 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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