

LTS Research Laboratories, Inc. Safety Data Sheet Chromium Silicon

1. Product and Company Identification			
Trade Name:	Chromium si	licon	
Chemical Formula:	SiCr		
Recommended Use:	Scientific res	earch and development	
Manufacturer/Supplier:	LTS Researc	h Laboratories, Inc.	
Street:	37 Ramland	Road	
City:	Orangeburg		
State:	New York		
Zip Code:	10962		
Country:	USA		
Tel #:	855-587-243	6 / 855-lts-chem	
24-Hour Emergency Contact:	800-424-930	0 (US & Canada)	
		3887 (International)	
	2. Hazards	dentification	
Signal Word:	Warning	•	
		- Ré la contra c	
Hazard Statements:	H228: Flamr	nable solid	
	H351: Suspe	cted of causing cancer	
Precautionary Statements:		t handle until all safety precautions have been read and	
	understood		
	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking		
	P280: Wear protective gloves/protective clothing/eye protection/face		
	protection		
	P240: Ground/bond container and receiving equipment		
	P241: Use explosion-proof electrical/ventilating/lighting/equipment		
	P308+P313: IF exposed or concerned: Get medical advice/attention		
	P370+P378: In case of fire: Use CO ₂ , sand, extinguishing powder		
	extinction		
	P405: Store locked up		
	P501: Dispose of contents/container in accordance with		
	local/regional/national/international regulations		
HMIS Health Ratings (0-4):	Powder	Bulk	
Health:	1	1	
		0	
Flammability: Physical:	2	0 0	

3. Composition		
Chemical Family:	Alloy	
Additional Names:	Silicon chromium	
Chromium (Cr):		
Percentage:	0-100 wt%	
CAS #:	7440-47-3	
EC #:	231-157-5	
Silicon (Si):		
Percentage:	0-100 wt%	
CAS #:	7440-21-3	
EC #:	231-130-8	
	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	
	5. Firefighting Measures	
	Non-flammable, except as powder	
Extinguishing Media:	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	
spee. The Fighting Freedule.	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	
	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	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below	

Permissible Exposure Limits:	1 mg/m ³ as Cr, metal, long-term value 0.5 mg/m ³ as Cr, inorganic compds, long-term value
	0.5 mg/m^3 as Cr. inorganic compds long-term value
	0.5 mg/m us er, morganie compus, iong term value
Threshold Limit Value:	0.5 mg/m^3 as Cr, long-term value
Special Equipment:	None
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a
	backup to engineering controls. Risk assessment should be performed
	to determine if purifying respirators are appropriate. Only use
	equipment tested and approved under appropriate government
	standards.
Protective Gloves:	Nitrile rubber, NBR
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	Gray
Form:	Grey Sputtering target
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	1306-1883 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	N/A Besearch
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, Halogen, Interhalogens
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume, silicon oxide
	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:	3160 mg/kg for rat by mouth
Carcinogen:	Suspected of causing cancer
	ACGIH A4: Not classifiable as a human carcinogen: Inadequate data
	on which to classify the agent in terms of its carcinogenicity in huma
	and/or animals. (Inhalation) EPA-A: human carcinogen: sufficient evidence from

(Inhalation) EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer

(Inhalation)EPA-K: Known human carcinogens

	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.	
	FLAMMAGLE SOLID	
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives	
Packing Group:	III	
UN Number:	UN3089	
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Chromium silicon alloy)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No C	
Sec 304 Reportable Quantities:	N/A N/A	
Sec 313 Toxic Chemicals:	Components	
	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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