



MATERIAL SAFETY DATA SHEET
COMPLIES WITH 29 CFR 1910.1200.
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 04-25-96

CHEMICAL IDENTITY

LABEL IDENTITY	CHROMIUM SILICIDE
CHEMICAL NAME/SYNONYMS	CHROMIUM SILICIDE
FORMULA	CrSi₂
CHEMICAL FAMILY	METAL SILICIDE
CAS REGISTRY NUMBER	12018-09-6
HAZARDOUS INGREDIENTS	CHROMIUM SILICIDE
%: 100	TLV: 0.5mg/m³ OSHA/PEL: 1mg/M³
	(for Cr salts) (for Cr metal)

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM AND ODOR	Silver to black powder
ODOR	ND
BOILING POINT	Unknown
DENSITY (gm/cc)	4.39
VAPOR PRESSURE @ 20°	NA
% VOLATILE BY VOLUME (%)	NA
REACTION WITH WATER	None
EVAPORATION RATE (H ₂ O=1)	NA
SOLUBILITY IN WATER	Insoluble
MELTING POINT	1570°C

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	Unknown
AUTOIGNITION TEMPERATURE (°C)	Unknown
FLAMMABILITY	Should not be flammable
EXTINGUISHING MEDIA	Agent for metal fires (like G-1 powder, Met-L-
X,	TEC)
SPECIAL FIRE FIGHTING PROCEDURES	None
UNUSUAL FIRE & EXPLOSION HAZARDS	None



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HEALTH HAZARD INFORMATION

TOXICITY DATA **NO DATA**
HMIS RATING:
HEALTH: **ND** FLAMMABILITY: **ND** REACTIVITY: **ND** PERSONAL PROTECTION: **ND**

ROUTES OF ENTRY

INHALATION:	Yes
SKIN:	Yes
INGESTION:	Yes

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: **ND**

EFFECTS OF OVEREXPOSURE (acute and chronic):

INHALATION: **irritation of nose, throat, mucous membranes and soreness of nose and throat. Trivalent chromium compounds have not been shown to be respiratory carcinogens, certain individuals may develop respiratory sensitivity to this compound.**

DERMAL/EYE: **sensitization, irritation, mild transient**

OTHER: **Ecematous dermatitis may occur from repeated skin contact. Low oral toxicity. No other specific data for this compound.**

CARCINOGENICITY: **NO** NTP: **NO** IARC MONOGRAPHS: **NO** OSHA REGULATE: **NO**

EMERGENCY FIRST AID PROCEDURES:

INGESTION: **Induce vomiting**

INHALATION: **Remove to fresh air**

SKIN CONTACT: **Wash affected area with soap and water**

EYE CONTACT: **Flush to remove particles**

REACTIVITY DATA

STABILITY	Stable
CONDITIONS CONTRIBUTING TO UNSTABILITY	None
INCOMPATIBILITY (MATERIALS TO AVOID)	None
HAZARDOUS DECOMPOSITION PRODUCTS	None
HAZARDOUS POLYMERIZATION	Will Not Occur
CONDITIONS TO AVOID	None



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SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Vacuum equipped with HEPA filter

WASTE DISPOSAL METHOD:

Consult federal, state and local regulations for proper disposal.

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION	Air purifying respirator for dusty conditions. Filter, dust, fume, mist.
LOCAL EXHAUST	Must meet TLV requirements
MECHANICAL (general)	ND
SPECIAL	None
OTHER	None
PROTECTIVE GLOVES	Neoprene
EYE PROTECTION	Safety glasses
OTHER PROTECTIVE EQUIPMENT	Normal laboratory wear

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

Wash thoroughly after handling, do not get in eyes, on skin or clothing, do not breathe dust, vapor, mist, gas, keep container closed.

TRANSPORTATION REQUIREMENTS	DOT CLASS:	Not Classified
	UN NUMBER:	NC
	IMCO CLASS:	NC
	OTHER:*	*reported as suspect carcinogen by NTP*

OTHER PRECAUTIONS IN LABELING: **NONE**

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, **ANGSTROM SCIENCES** MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR THE RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

NA= NOT APPLICABLE

ND= NO DATA FOUND