

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Chromium

	1. Product and Co	ompany Identification	
Trade Name:	Chromium		
Chemical Formula:	Cr		
Manufacturer/Supplier:	XI'AN FUN	ICTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Gazelle Valley, High-Tech Zone		
City:	XI'AN		
State:			
Zip Code:	710077		
Country:	China		
Tel #:	+86-29-8899	93870/+86-13519132051	
	2. Hazards	s Identification	
Signal Word:	Warning		
Hazard Statements:	H351: Susp	bected of causing cancer	
Precautionary Statements:		personal protective equipment as required	
		P201: Obtain special instructions before use	
		ot handle until all safety precautions have been read and	
	understood	. IF and a concerned. Cat and isale daise (attention	
		P308+P313: IF exposed or concerned: Get medical advice/attention P405: Store locked up	
		ose of contents/container in accordance with	
		nal/national/international regulations	
HMIS Health Ratings (0-4):	Powder	Bulk	
Health:	1	0	
Flammability:	0	0	
Physical:	0	0	
	3. Co	mposition	
Chamical Eamily	Matal		

Chemical Family: Additional Names:	Metal None	
Chromium (Cr):		
Percentage:	100 wt%	
CAS #:	7440-47-3	
EC #:	231-157-5	

	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
Flammability:	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
	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.
Environmental Precautions:	Take care not to raise dust.
Environmental Precautions.	Isolate runoff to prevent environmental pollution.
1	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 compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below

8. Exposure Controls and Personal Protection	
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
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	Grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	2671 °C
Melting Point:	1907 °C
Flash Point:	N/A

- N/A 7.19 g/cc 51.996 g/mol

10. Reactivity

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Stability:	Stable under recommended storage conditions	
Reacts With:	Strong oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume	
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:	N/A

Autoignition Temperature:

Molecular weight:

Density:

Carcinogen:	ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. (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 IARC-3: Not classifiable as to carcinogenicity to humans (Oral)EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	Low No No N/A
	13. Disposal Considerations
Dispose of in accordance with local, state, n	
	14. Transportation Data
Hazardous:	Hazardous as powder only.
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives.
Packing Group: UN Number: Proper Shipping Name:	III UN3089 Metal powders, flammable, n.o.s. (Chromium powder)
	15. Regulatory Information
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A Yes
	16. Other Information
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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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