I'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Chromium Carbide

 Product and Comp 	any Identification
--------------------------------------	--------------------

Trade Name: Chromium carbide

Chemical Formula: Cr₃C₂

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shannxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H228: Flammable solid

Precautionary Statements: 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/light/equipment P370+P378: In case of fire: Use CO₂, powder or water spray for

extinction

HMIS Health Ratings (0-4):

Health: 1 Flammability: 2 Physical: 2

3. Composition

Chemical Family: Ceramic

Additional Names: Chromium(II) carbide

Chromium carbide (Cr₃C₂):

Percentage: 100 wt% CAS #: 12012-35-0 EC #: 234-576-1

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Seek medical attention. Ingestion: Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Flammable as powder only. Extinguishing Media: Do not use water for metal fires – use CO₂, 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 Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** 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 threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: 0.5 mg/m³ as Cr, long-term value Threshold Limit Value: N/A **Special Equipment:** None **Respiratory Protection: Dust Respirator Protective Gloves:** Rubber gloves Eye Protection: Safety glasses or goggles

sleeves/pants.

Protective work clothing. Wear close-toed shoes and long

Body Protection:

2 of 4

9. Physical and Chemical Characteristics		
Color	Grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	N/A	
Boiling Point:	3800 °C	
Melting Point:	1890 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	6.68 g/cc	
Molecular weight:	179.99 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Bases, Oxidizing agents	
Incompatible Conditions:	Water, Electrostatic charges	
Hazardous Decomposition Products:	Methane, Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes irritation	
Skin:	Causes irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	Chromium powder, chromium (II) and chromium (III) compounds may	
Chrome.		
	cause nausea, diarrhea, vomiting, skin and eye irritation and	
	pneumoconiosis. Although less likely than Cr (VI) compounds, the	
	NTP considers all chromium to be potentially carcinogenic.	
Ciana & Crymptoma	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	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.



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives.

Packing Group:

UN Number: UN3178

Proper Shipping Name: Flammable solid, inorganic, n.o.s. (Chromium carbide)

15. Regulatory Information

Sec 302 Extremely Hazardous:NoSec 304 Reportable Quantities:N/ASec 313 Toxic Chemicals:Yes

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.

Document Last Revised: 05/22/2017