

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

Nickel Chromium			
			Trade Name:
Chemical Formula:	Ni-Cr		
Recommended Use:	Scientific res	search and development	
Manufacturer/Supplier:	XI'AN FU	NCTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Ga	zelle Valley, High-Tech Zone	
City:	XI'AN		
State:	Shannxi		
Zip Code:	710077		
Country:	China		
Tel #:	+86-29-889	993870/+86-13519132051	
	2. Hazards	Identification	
Signal Word:	Danger		
Hazard Statements:		cause an allergic skin reaction	
	H351: Suspe	ected of causing cancer	
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking		
	P280: Wear protective gloves/protective clothing/eye protection/face protection		
	P260: Do not breathe dust/fume/gas/mist/vapours/spray		
	P363: Wash contaminated clothing before reuse		
	P405: Store		
		se of contents/container in accordance with	
	local/regional/national/international regulations		
HMIS Health Ratings (0-4):	Powder	Bulk	
Health:	1	0	
Flammability:	2	0	
Physical:	1	0	
	3. Con	nposition	
Chemical Family:	Metal alloy		
Additional Names:	None		
Nickel chromium (NiCr):	100		
Percentage:	100 wt%		
CAS #:	11106-97-1		
EC #:	NIL		

	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: Skin:	Seek medical attention . Weak offected area with mild seen and water Demous any	
Skill:	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.	
	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	
	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.	
8. H	Exposure Controls and Personal Protection	
Permissible Exposure Limits:	1 mg/m ³ as Ni, long-term value	
Threshold Limit Value:	0.5 mg/m ³ as Cr, long-term value	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves	
Eye Protection: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long	
Body Flottetion.	sleeves/pants.	

9. Physical and Chemical Characteristics		
Color	Silver	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point: Flash Point:	1400 °C N/A	
Autoignition Temperature:	N/A N/A	
Density:	N/A N/A	
Molecular weight:	110.69 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, Halogens, Interhalogens, Ammonia, Sulfur, 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:	Chromium powder, chromium (II) and chromium (III) compounds may	
	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.	
	Nickel and nickel compounds may cause a form of dermatitis known as	
	nickel itch. They may also cause intestinal disorders, convulsions and	
	asphyxia. Airborne nickel contaminated dusts are regarded as	
	carcinogenic to the respiratory tract.	
Signs & Sumptomot	NI/A	
Signs & Symptoms: Aggravated Medical Conditions:	N/A N/A	
Median Lethal Dose:	N/A	
Carcinogen:	IARC-2B: Possibly carcinogenic to humans: limited evidence in human	
	in the absence of sufficient evidence in experimental animals.	
	The Registry of Toxic Effects of Chemical Substances (RTECS)	
	contains tumorigenic and/or carcinogenic and/or neoplastic data for this	
	substance.	
	NTP-K: Known to be carcinogenic: sufficient evidence from human	
	studies.	
	EPA-K: Known human carcinogens	
	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.	
	EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer	

	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	ational, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only.
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized
Packing Group: UN Number: Proper Shipping Name:	explosives III UN3178 Flammable solid, inorganic, n.o.s. (Nickel chromium)
	15. Regulatory Information
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A 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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