

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

1. Product and Company Identification		
Trade Name:	Nickel metal	
Chemical Formula:	Ni	
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Gazelle Valley, High-Tech Zone	
City:	XI'AN	
State:	Shaanxi	
Zip Code:	710077	
Country:	China	
Tel #:	+86-29-88993870/+86-13519132051	
	2. Hazards Identification	
Signal Word:	Danger	
Hazard Statements:	H228 Elementa calid (novdar)	
Hazaru Statements:	H228 Flammable solid (powder)	
	H317 May cause an allergic skin reaction	
	H351 Suspected of causing cancer	
	H372 Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalative	
Precautionary Statements:	P210 Keep away from heat/sparks/flame. No smoking.	
	P240 Ground/bond container and receiving equipment.	
	P260 Do not breathe dust/fume/gas/mist/vapors/spray	
	P280: Wear protective gloves/protective clothing/eye protection/face	
	protection	
	P363 Wash contaminated clothing before reuse	
	P405 Store locked up	
	P501 Dispose of contents/container in accordance with	
	local/regional/national/international regulations	
HMIS Health Ratings (0-4):	Powder Pieces & larger	
Health:	1 1	
Flammability:	3 0	
Physical:	1 0	
	3. Composition	
Chemical Family:	Metal	
Additional Names: Nickel (Ni):	None	
Percentage:	100 wt.%	
CAS #:	7440-02-0	
EC #:	231-111-4	

	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Supply fresh air and if required, provide artificial respiration. Seek medical attention.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing. Seek immediate medical advice.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Consult a doctor.
	5. Firefighting Measures
Flammability:	Flammable as powder
Extinguishing Media:	Special powder for metal fires. Do not use water or carbon dioxide.
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 adequate
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposa
	Take care not to raise dust. Keep away from ignition sources.
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. Protect against electrostatic charges.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
8. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	1 mg/m ³ as Ni, ceiling limit value
Threshold Limit Value:	0.015 mg/m^3 as Ni, respirable, long-term value
	1.5 mg/m^3 as Ni, inhalable fraction, long-term value
Special Equipment:	None
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a
	backup to engineering controls. Risk assessment should be performed
	to determine if air-purifying respirators are appropriate. Only use
	equipment tested and approved under appropriate government
	standards.
Protective Gloves:	Nitrile rubber, NBR 0.11mm thick.
	480 minutes
Penetration time of glove material: Eye Protection:	Safety glasses or goggles
	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. Physical and Chemical Characteristics		
Color	Silver grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	2732 °C (4950 °F)	
Melting Point:	1455 °C (2651 °F)	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	8.908 g/cc (74.337 lbs/gal)	
Molecular weight:	58.6934 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts with:	N/A	
Incompatible Conditions:	Halogens.	
Hazardous Decomposition Products:	Nickel oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes irritation	
Skin:	May cause irritation or allergic reaction	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	Causes damage to the lung, the kidneys and the liver through prolonge	
	or repeated exposure	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	Suspected of causing cancer	
	IARC-2B, NTP-R, ACGIH-A5	
K	12. Ecological Information	
Aquatic Toxicity:	Moderate	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
Notes:	Do not allow to reach ground water	
	13. Disposal Considerations	

Dispose of in accordance with local, state, national, and international regulations.

Hazardous:	Hazardous as powder only.	
Hazard Class:	4.1 Flammable solids	
Packing Group:	Π	
UN Number:	UN3089	
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Nickel)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes	

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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