

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Niobium Titanium Alloy

 Product and Company Identificati 	catior	itificatio	Company Ide	and Co	duct	. Proc	Ι.
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Trade Name: Niobium titanium alloy

Chemical Formula: NbTi

Recommended Use: Scientific research and development

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: Danger



Hazard Statements: H228: Flammable solid

H252: Self-heating in large quantities; may catch fire

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P235+P410: Keep cool. Protect from sunlight

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/light/equipment

P370+P378: In case of fire: Use CO₂ or powder for

extinction

P420: Store away from other materials

P407: Maintain air gap between stacks/pallets

P413: Store bulk masses greater than 1 lbs at temperatures not

exceeding 100 °F

HMIS Health Ratings (0-4): Powder Target

Health: 1 0 Flammability: 3 0 Physical: 2 0

3. Composition				
Chemical Family:	Alloy			
Additional Names:	None			
Niobium (Nb):				
Percentage:	0-100 wt%			
CAS #:	7440-03-1			
EC #:	231-113-5			
Titanium (Ti):	0.100 - 10/			
Percentage:	0-100 wt%			
CAS #: EC #:	7440-32-6 241-036-9			
	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			
Error	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			
Work/Hygienic Maintenance:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with			
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.			

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

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.

Penetration time of glove material: 480 minutes

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, Sputtering target, Custom parts

Odor:
Water Solubility:
Boiling Point:
Melting Point:
N/A
Melting Point:
N/A
Flash Point:
N/A
Autoignition Temperature:
N/A
N/A
N/A

Molecular weight: 140.77 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Halogens, Halocarbons, Mineral acids, Oxidizing agents

Incompatible Conditions: Air

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

Chronic: 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: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Niobium titanium alloy)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

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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