

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

Titanium Aluminide

1. Product and Company Identification		
Trade Name: Chemical Formula:	Titanium aluminide TiAl	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier: Street:	XI'AN FUNCTION MATERIAL GROUP CO., LTD No. 69, Gazelle Valley, High-Tech Zone	
City: State: Zip Code:	XI'AN Shannxi 710077	
Country:	China	
Tel #:	+86-29-88993870/+86-13519132051	
	2. Hazards Identification	
Signal Word:	Danger	
Hazard Statements:	H228: Flammable solid	
riazara statements.	H315 Causes skin irritation H319 Causes serious eye irritation H335: May cause respiratory irritation	
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P261 Avoid breathing dust/fume/vapor P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –	
	continue rinsing P280: Wear protective gloves/protective clothing/eye protection/face protection P405: Store locked up P501: Dispose of contents/container in accordance with	
	local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
Health:	1	
Flammability: Physical:	3 1	
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3. Composition		
Additional Names:	None	
Titanium aluminide (TiAl):		
Percentage:	100 wt%	
CAS #:	12003-96-2	
EC #:	234-461-6	
	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: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder 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. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.	
9. Ph	ysical and Chemical Characteristics	
Color	Silver grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:		
	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	74.85 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye damage.	
Skin:		
	Causes 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	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	Low	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative	o: 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. (Titanium aluminide)

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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