

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Titanium Aluminum Vanadium

1. Product and Company Identification

Trade Name: Titanium aluminum vanadium

Chemical Formula: Ti/Al/V

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

H250: Catches fire spontaneously if exposed to air H252: Self-heating in large quantities; may catch fire H261: In contact with water releases flammable gas

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

P222: Do not allow contact with air

P231+P232: Handle under inert gas. Protect from moisture P261: Avoid breathing dust/fume/gas/mist/vapours/spray

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

protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

P370+P378: In case of fire: Use special powder for metal fires for

extinction

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health:

Flammability:

Powder

1

1

0

Flammability:

Physical:

2

1

0

3. Composition	
Chemical Family:	Alloy
Additional Names:	None
Titanium (Ti):	
Percentage:	0-100 wt%
CAS #:	7440-32-6
EC #:	231-142-3
Aluminum (Al):	
Percentage:	0-100 wt%
CAS #:	7429-90-5
EC #:	231-072-3
Vanadium (V):	
Percentage:	0-100 wt%
CAS #:	7440-62-2
EC #:	231-171-1
	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. If unconscious, place patient stably in side position for transportation
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
	As powder: spontaneously flammable in air
Extinguishing Media:	Do not use water for metal fires – use 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:** Handle under dry protective gas. Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: 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 15 mg/m³ as Al total dust or respirable fraction, long-term value Permissible Exposure Limits: Threshold Limit Value: 1 mg/m³ as Al respirable fraction, long-term value Special Equipment: None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Eve 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 Powder, Granules, Pellets, Sputtering target, Custom parts Form: 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: N/A 10. Reactivity Stability: Stable under recommended storage conditions Halogens, Halocarbons, Acids, Bases, Water, Oxidizing agents Reacts With: **Incompatible Conditions:** Air, Water/moisture Metal oxide fume **Hazardous Decomposition Products:** 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: May cause irritation Inhalation: May cause irritation Chronic: N/A Signs & Symptoms: N/A Aggravated Medical Conditions: N/A

N/A

N/A

Median Lethal Dose:

Carcinogen:

12. Ecological Information

Aquatic Toxicity:

Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No

Notes:

13. Disposal Considerations

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

N/A

14. Transportation Data

Hazardous: Hazardous as powder only.

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

explosives

II

No

N/A

Packing Group:

UN Number: UN3178

Proper Shipping Name: Flammable solid, inorganic, n.o.s. (Titanium aluminum alloy)

15. Regulatory Information

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

Sec 313 Toxic Chemicals:

Yes: Aluminum, Vanadium

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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