

# XI'AN FUNCTION MATERIAL GROUP CO., LTD

### Material Safety Data Sheet Vanadium Oxide

1. Product and Company Identification

Trade Name: Vanadium Oxide

Chemical Formula: V<sub>2</sub>O<sub>3</sub>

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: H302+H332: Harmful if swallowed or if inhaled

H310: Fatal in contact with skin H315 Causes skin irritation H319 Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: 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.

P361: Remove/Take off immediately all contaminated clothing P302+P350: IF ON SKIN: Gently wash with plenty of soap and water

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition	
Chemical Family: Additional Names:	Ceramic Vanadium Trioxide, Vanadium (III) Oxide
Vanadium Oxide (V <sub>2</sub> O <sub>3</sub> ):	
Percentage:	100 wt%
CAS #:	1314-34-7
EC #:	215-230-9
	4. First Aid Procedures
General Treatment:	Seek medical attention. Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.
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. Seek immediate medical attention.
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
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires use CO <sub>2</sub> , 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 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 Black Form: Powder Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 1940 °C Flash Point: N/A Autoignition Temperature: N/A Density: 4.87 g/cc 149.48 g/mol Molecular weight: 10. Reactivity Stable under recommended storage conditions Stability: Reacts With: Oxidizing agents **Incompatible Conditions:** None Toxic metal oxide fume Hazardous Decomposition Products: 11. Toxicological Information Potential Health Effects: Eyes: Causes serious eye irritation Skin: Fatal Harmful Ingestion: Inhalation: Harmful Chronic: N/A Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: 556 mg/kg by mouth (rat) 200 mg/kg by skin (rabbit) N/A Carcinogen: 12. Ecological Information Aquatic Toxicity: N/A

Persistent Bioaccumulation Toxicity:

Very Persistent, Very Bioaccumulative:

N/A

N/A

Notes:

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow undiluted product or large quantities to reach ground

water, water course, or sewage system Avoid transfer into the environment

## 13. Disposal Considerations

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

#### 14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 6.1 Toxic substances

Packing Group: II UN Number: UN3285

Proper Shipping Name: Vanadium compound, n.o.s. (Vanadium (III) oxide)

### 15. Regulatory Information

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

## 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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