

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Vanadium (III) Sulfide

1. Product and Company Identification

Trade Name: Vanadium (III) Sulfide

Chemical Formula: V_2S_3

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: H331 Toxic if inhaled

H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

 $P280\ Wear\ protective\ gloves/protective\ clothing/eye\ protection/face$

protection

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

rınsıng

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

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: 1 Physical: 0

3. Composition	
Chemical Family:	Ceramic
Additional Names:	Vanadium(III) sulphide, Vanadium Sulfide
Vanadium (III) sulfide (V ₂ S ₃):	
Percentage:	100 wt%
CAS #:	1315-03-3
EC #:	215-253-4
	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. Keep victim warm. Seek immediate medical attention.
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce
	vomiting or give anything by mouth to an unconscious person. Seek
	medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing. Seek medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Consulta
	doctor.
	5. Firefighting Measures
Elementiitu	Non-flammable
Flammability:	Non-Hammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
Spec. The Tighting Troccure.	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
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	6. Accidental Release Measures
If Material Is Released/Spilled:	
ii iviateriai is keleased/Spilled:	Wear appropriate respiratory and protective equipment specified in
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8. Exposure Controls and Personal Protection

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

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity if at least 100 feet per

minute.

Respiratory Protection: Use suitable respirator when high concentrations are present.

Protective Gloves: Impervious gloves. Check protective gloves prior to each use for their

proper condition. The selection of suitable gloves not only depend on the material, but also on quality. Quality varies from manufacturer to

manufacturer.

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 Black

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

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

Density: $4.72 \text{ g/cc (at } 20^{\circ}\text{C)}$

Molecular weight: 198.08 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids. Contact with acids liberates toxic gases

Incompatible Conditions: Oxidizing agents

Acids

Hazardous Decomposition Products: Toxic metal oxide fume

Sulfur oxides (SOx) Hydrogen Sulfide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious irritation
Skin: May cause irritation
Ingestion: May cause irritation
Inhalation: Harmful if inhaled

Chronic: Vanadium compounds aft chiefly as an irritant to the eyes and

respiratory tract. Exposure may cause conjunctivitis, rhinitis and reversible irritation of the respiratory tract. More severe cases may cause bronchitis, bronchospasms and asthma like disease. May cause polycythemia, red blood cell destruction and anemia, albuminuria and hematuria, gastrointestinal disorders, nervous complaints and severe cough. To the best of our knowledge the acute and chronic toxicity of

this substance is not fully known.

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: No classification data on carcinogenic properties of this material is

available from the EPA, IARC, NTP, OSHA or ACGIH

12. . Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

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

governmental permits. 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: PG III
UN Number: UN3285

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

15. . Regulatory Information

Sec 302 Extremely Hazardous: N/A
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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