XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Cesium metavanadate

1. Product and Company Identification

Trade Name: Cesium metavanadate

Chemical Formula: CsVO₃

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XIAN
State: SHAANXI
Zip Code: 710077
Country: CHINA

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger





Hazard Statements: H302: Harmful if swallowed

H332: Harmful if inhaled

H370: Causes damage to organs

Precautionary Statements:

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash face, hands and any exposed skin thoroughly after

handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well-ventilated area

 $P301 + P312 + P330: IF \ SWALLOWED: Call \ a \ POISON \ CENTER \ or$

doctor/physician if you feel unwell. Rinse mouth

P304+P340+P312: IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell

P307+P311: IF exposed: Call a POISON CENTER or doctor/physician

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

3. Composition	
Chemical Family:	Ceramic
Additional Names:	Cesium Vanadium Oxide, Cesium vanadate
Cesium metavanadate (CsVO ₃):	
Percentage:	100 wt%
CAS #:	14644-55-4
EC #:	238-693-9
	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.
Torrestions	Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Evec	Flush eyes with water, blinking often for several minutes. Remove
Eyes:	contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical attention.
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	5. Firefighting Measures
Flammability:	Non-flammable
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
Speed I no I ignuing I recodule.	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. Keep unprotected persons away. 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. Do not allow
	material to contaminate ground water system. Do not flush into surface
Environmental Precautions:	water or sanitary sewer system. Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling. Avoid ingestion and inhalation. Avoid
Tanding Conditions.	dust formation. Do not get in eyes, on skin, or on clothing.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from
	oxidizing agents, acids, strong bases. 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
World 22, ground Transformation	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below

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 of at least 100 feet per

minute.

Respiratory Protection:
Protective Gloves:

Rubber gloves

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 White, yellow

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

Odor: Odorless
Water Solubility: Slightly soluble

Boiling Point: N/A
Melting Point: N/A
Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A

Molecular weight: 231.84 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, acids, strong bases

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, vanadium oxides, cesium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: Harmful if swallowed
Inhalation: Harmful if inhaled

Chronic: N/A

Signs & Symptoms: N/A

Aggravated Medical Conditions: Causes damage to organs if swallowed or inhaled

Median Lethal Dose: N/A

Carcinogen: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA

12. Ecological Information

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

Notes: Do not let product enter drains.

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 6.1 Toxic solid

Packing Group: III UN Number: UN3288

Proper Shipping Name: Toxic solid, inorganic, n.o.s (Cesium metavanadate)

15. Regulatory Information

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:
No
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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