

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Molybdenum Telluride

1. Product and Company Identification

Trade Name: Molybdenum Telluride

Chemical Formula: MoTe₂

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: H301 Toxic if swallowed

H332 Harmful if inhaled

Precautionary Statements: P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash 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 + P310 + P330 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/

physician if you feel unwell. P405 Store locked up.

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P501 Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

3. Composition	
Chemical Family:	Ceramic
Additional Names:	Molybdenum Ditelluride
Molybdenum Telluride (MoTe ₂):	
Percentage:	100 wt.%
CAS #:	12058-20-7
EC #:	235-028-4
	4. First Aid Procedures
General Treatment:	Seek medical attention.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Never induce vomiting or give anything by mouth to an unconscious
	person. Rinse mouth.
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. Seek medical
	attention.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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.
	5. 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: 0.1 mg/m³ as MoTe₂, long-term value Threshold Limit Value: 0.1 mg/m³ as MoTe₂, long-term value Special Equipment: None Respiratory Protection: **Dust Respirator** Rubber gloves Protective Gloves: Eye Protection: Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long **Body Protection:** sleeves/pants. 9. Physical and Chemical Characteristics Color Metallic Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: N/A Water Solubility: N/A **Boiling Point:** N/A **Melting Point:** N/A Flash Point: N/A **Autoignition Temperature:** N/A Density: 7.78 g/cc Molecular weight: 351.16 g/mol 10. Reactivity Stability: Stable under recommended storage conditions Reacts with: Stable and Non-reactive under normal conditions of use **Incompatible Conditions:** Strong Oxidizing agents Hazardous Decomposition Products: Metal oxide fume 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: Toxic Inhalation: Harmful Chronic: N/A Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: 2420 mg/kg for rat by mouth Carcinogen: N/A 12. Ecological Information Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation.

POISON 6

Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN3284

Proper Shipping Name: Tellurium compound, n.o.s. (Molybdenum Telluride)

15. Regulatory Information

Sec 302 Extremely Hazardous:

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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