

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Tungsten Metal

1. Product and Company Identification

Trade Name: Tungsten Chemical Formula: W

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: Warning





Hazard Statements: H228: Flammable solid powder.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary Statements: P210: Keep away from heat/sparks/flame. No smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P264: Wash skin thoroughly after handling.

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

protection.

P302+P352: IF ON SKIN: Wash with soap and water.

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

continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists get medical advice/attention. P362: Take off contaminated clothing and wash before reuse.

P370+P378: In case of fire, use CO2 or dry powder for metal fires for

extinction.

HMIS Health Ratings (0-4):

Health: 2
Flammability: 3
Physical: 3

3. Composition	
Tungsten (W):	
Percentage:	100 wt%
CAS #:	7440-33-7
EC #:	231-143-9
	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. Seek immediate medical attention.
Ingestion:	Give one to two glasses of water. Never induce vomiting or give anything by mouth to an unconscious person. Seek immediate 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. Seek
	immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder. 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: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Keep away from sources of ignition.
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: 5 mg/m³ as W, time weighted average

Threshold Limit Value: 3 mg/m³ as W, 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 Metallic grey

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

Odor: Water Solubility: N/A **Boiling Point:** 5930 °C **Melting Point:** 3422 °C Flash Point: N/A **Autoignition Temperature:** N/A Density: 19.3 g/cc Molecular weight: 183.94 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions: Avoid contact with strong oxidizers. Bromide pentafluoride, bromine,

> chlorine, trifluoride, potassium perchlorate, potassium dichromate, nitryl fluorine, oxygen difluoride, iodine pentafluoride, hydrogen sulfide, sodium peroxide, lead (IV) oxide, air, heat, flame and sparks

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Causes serious irritation Eyes:

Skin: Causes irritation Ingestion: May cause irritation Inhalation: May cause irritation

Chronic: N/A

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

Median Lethal Dose: 2000 mg/kg for rat by intraperitoneal injection

N/A Carcinogen:

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 as powder only.



Hazard Class: 4.1 Flammable solids

Packing Group: II UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Tungsten)

15. Regulatory Information

Sec 302 Extremely Hazardous:

No
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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