

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Tungsten Oxide

AR2301

Alpha Resources, Inc.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	%W	CHEMICAL NAMES	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)
1314-35-8	100	Tungsten (VI) Oxide	Not avail.	10 (total) 5 (resp)

3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: Causes irritation.

SKIN: Causes irritation.

INHALATION: Tungsten oxide may cause lung damage; irritation to respiratory system.

INGESTION: Harmful if swallowed.

CHRONIC OVEREXPOSURE: Prolonged inhalation may adversely affect respiratory function.

ACUTE OVEREXPOSURE: Harmful if swallowed. May be harmful if inhaled. May be harmful if absorbed through the skin. Causes eye and skin irritation.

MEDICAL CONDITIONS AGGRAVATED: Not available.

CARCINOGENICITY: None.

4. FIRST AID MEASURES

EYES: Flush with large amounts of water. If irritation persists, get medical attention

INHALATION: Removed from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SKIN: Wash skin with plenty of soap and water.

INGESTION: Wash out mouth with water provided person is conscious. Call a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Non-flammable

Flash Point: Not available

Flammable Limits: (% by Volume in Air): Lower: None Upper: None

AUTO-IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: Emits toxic fumes under fire conditions.

EXTINGUISHING MEDIA: Use extinguishing media appropriate to surrounding fire conditions.

FIREFIGHTING INSTRUCTIONS: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

SMALL/LARGE SPILL: Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

HANDLING: Do not breathe dust; avoid contact with eyes, skin and clothing. Avoid prolonged or repeated handling; wash thoroughly after handling.

STORAGE: Keep container tightly closed. Store in a cool dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical exhaust required.

RESPIRATORY PROTECTION: NIOSH/MSHA respirator if exposure above the PEL or TLV.

SKIN AND HAND PROTECTION: Wear chemical-resistant gloves.

EYE AND FACE PROTECTION: Safety goggles.

OTHER PROTECTIVE EQUIPMENT: Wear suitable protective clothing. Safety shower and eye bath required.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: yellow green powder

BOILING POINT: N/A

FREEZE-MELT POINT: N/A

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SOLUBILITY IN WATER: N/A

SPECIFIC GRAVITY: 7.16

pH: N/A

ODOR: None

PERCENT VOLATILES: N/A

EVAPORATION RATE: N/A

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

INCOMPATIBILITY: Incompatible with bromine and strong acids; reacts violently with bromine pentafluoride or chlorine trifluoride. Reacts initially with lithium at 392 F (200C), resulting in a rapid and violent exothermic reaction.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits toxic fumes under fire conditions. Nature of decomposition products not known.

HAZARDOUS POLYMERIZATION: None.

11. TOXICOLOGICAL INFORMATION

Not established.

12. ECOLOGICAL INFORMATION

None available.

13. DISPOSAL CONSIDERATION

Bury in a landfill site approved for the disposal of chemical and hazardous wastes. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

USA DOT: Not regulated

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA STATUS: On toxic Substance Control Inventory

CERCLA Reportable Quantity: None

RCRA Status: Not regulated

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: Acute, Chronic

Section 313 Toxic Chemicals: None

CANADAIN REGULATIONS

WHMIS: Not regulated

16. OTHER INFORMATION

SUPPLEMENTAL INFORMATION

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

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