

1. Identification

Product Identifier: **Tungsten Powder**
 Use: Pigment.
 Manufacturer: Alumilite
 315 E. North Street Kalamazoo, MI 49007 USA
 Phone Number: +1 800-447-9344 (9 a.m. to 5 p.m. EST)
 Emergency Phone: CHEMTREC 800-424-9300 or
 +1 703-527-3887
 E-mail: info@alumilite.com

2. Hazards Identification

GHS Classification:

Skin corrosion/irritation – Category 3
 Eye damage/irritation – Category 2B
 Specific Target Organ Toxicity Single Exposure – Category 3 (H335)

Label Elements: Warning



Hazard Phrases

H316 Causes mild skin irritation.
 H320 Causes eye irritation.
 H335 May cause respiratory irritation.

Precautionary Phrases

P261 Avoid breathing dust/fume/mist/vapors/spray.
 P264 Wash skin thoroughly after handling
 P271 Use only outdoors or in a well-ventilated area.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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 attention.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients

Chemical Name	CAS #	GHS Classification	%
Tungsten	7440-33-7	STOT-SE 3	99.9

Exact concentrations are withheld as trade secret. Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentration limits.

4. First-Aid Measures

Eye Contact: Flush eyes with large amounts of water for 15 minutes. Remove contact lenses if safe and easy to do. Get medical attention if irritation persists.

Skin Contact: Wash contact area thoroughly with soap and water. Get medical attention if irritation persists.

Inhalation: Remove person to fresh air. Get medical attention if symptoms persist.

Ingestion: Consume large amounts of water and induce vomiting. Get medical attention if symptoms persists.

Most Important Symptoms/Effects: Causes mild eye, skin, and respiratory irritation.

Indication of Immediate Medical Attention/Special Treatment: Not expected to be required.

5. Fire-Fighting Measures

Extinguishing Media: Use dry chemical. Use extinguishing media suitable for surrounding fire.

Specific Hazards: When tungsten burns in air it forms tungsten trioxide, which sublimates above 1382°F (750°C).

Special Protective Equipment & Precautions for Fire-Fighters: Wear positive pressure, self-contained breathing apparatus and full-body protective clothing. Under abnormal conditions, tungsten may present a fire hazard depending upon particle size, dispersion, and exposure to an ignition source. This is not expected under normal conditions. Tungsten powder, particularly powder less than 1 micron (FSSS) can oxidize in air by friction during blending, milling, or similar process. Ultra-fine powders may oxidize spontaneously in air.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency

Procedures: Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors.

Methods and Materials for Containment and Cleanup: Avoid dust generation. Vacuum or wet clean up methods are recommended to reduce dust generation. Use an approved filter when vacuuming.

7. Handling and Storage

Safe Handling: Avoid contact with skin and eyes. Use with adequate ventilation. Do not breathe vapors/dust.

Safe Storage: Keep containers tightly closed in a dry and well-ventilated place.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: No OSHA or ACGIH exposure limits apply.

Ventilation: Use with adequate general or local exhaust ventilation to minimize exposure.

Respiratory Protection: If ventilation is inadequate or poor, use a NIOSH-approved respirator suitable to meet permissible exposure limit.

Skin Protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

Eye Protection: Wear chemical safety glasses or goggles.

Other Protective Measures: Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and Chemical Properties

Appearance: Powder; gray to dark gray

Odor: None

Odor Threshold: No data available

pH: No data available

Melting Point: 6170°F

Boiling Point: 10652°F

Flash Point: No data available

Evap. Rate: No data available

Upper/Lower Flammability Limits: Not flammable

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: 19.3 g/cc

Solubility: Insoluble in water

Partition Coefficient: n-octanol/Water: No data available

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: No data available

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: None known.

Incompatible Materials: Tungsten is slightly soluble in nitric acid, sulfuric acid and aqua regia. It is soluble in a mixture of hydrofluoric acid and nitric acid. Vigorous reaction with bromine trifluoride. Tungsten becomes incandescent in cold fluorine, lead oxide and iodine pentafluoride. Avoid oxidizers.

Hazardous Decomposition Products: None known under recommended conditions.

11. Toxicological Information

Eye Contact: May cause mild eye irritation.

Skin Contact: May cause mild skin irritation.

Inhalation: May cause mild respiratory irritation.

Ingestion: No data available

Chronic Health Effects: No data available

Acute Toxicity Values: No data available

Germ Cell Mutagenicity: Components are not classified as mutagens.

Carcinogenicity: Components are not classified as carcinogens.

Reproductive Toxicity: Components are not classified as reproductive toxins.

Specific Target Organ Toxicity: No data available

12. Ecological Information

Ecotoxicity: No data available. Do not release into waterways.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. Disposal Considerations

Dispose according to local, state and federal regulations. Dispose of in sealed containers, using a licensed chemical waste hauler.

14. Transport Information

US Ground Transport: Not regulated as a hazardous material by US DOT (49 CFR 171).

Emergency Shipping Information: CHEMTREC, 800-424-9300 or +1-703-527-3887

15. Regulatory Information

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: Not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III

Section 311/312: Acute, Chronic

Section 313 Toxic Chemicals: This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All components are listed on the TSCA inventory.

STATE REGULATIONS:

California Proposition 65: This product is not a chemical which is known to the State of California to cause cancer and/or reproductive harm. www.P65Warnings.ca.gov

16. Other Information

Training Advice: All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

Recommended Uses and Restrictions: This product is intended for industrial/professional use only.

SDS Revision Notes: GHS Format, June 4, 2019

Disclaimer: The information contained herein is considered accurate; however, Alumilite makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.