

Saturn Industries

SAFETY DATA SHEET

Revision Date: 2/22/16

1. Chemical Product & Company Information

Product: **TUNGSTEN ROD**

Saturn Industries
157 Union Turnpike
Hudson, NY 12534

2. Hazard Identification

Emergency Overview

No spill hazard, minimal health risk



HAZARD STATEMENT

Causes respiratory tract, eye and skin irritation

PRECAUTIONARY MEASURES

Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Keep container closed, use protective equipment as required and wash thoroughly after handling.

POTENTIAL HEALTH EFFECTS

EYES: Irritation possible

SKIN: Irritation possible

INHALATION: None

INGESTION: Gastrointestinal irritation possible

MEDICAL CONDITIONS AGGRAVATED: Exposure to tungsten dust or fume may aggravate chronic respiratory disease

CHRONIC OVEREXPOSURE: Not known

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ACUTE: OVEREXPOSURE: Not known

CARCINOGENICITY: None

3. Composition Data

<u>Component</u>	<u>CAS No</u>	<u>EINCES No</u>	<u>STEL (mg/m³)</u>	<u>TWA (mg/m³)</u>	<u>Typical Weight %</u>
Tungsten	7440-33-7	231-143-9	10	5	99.95

4. First Aid Measures

EYES: Flush with large amounts of water for 15 minutes. If irritation occurs, seek medical attention.

SKIN: Wash with soap and water. If irritation occurs, seek medical attention.

INHALTION: Remove from exposure. If necessary aid breathing and seek medical attention.

INGESTION: If large amounts are ingested, consume large quantities of water and induce vomiting. Seek medical attention.

5. Fire Fighting Measures

FLAMMABLE PROPERTIES: Non-flammable

FLASH POINT: N/A

FLAMMABLE LIMITS (% Vol in Air):

Lower: none Upper: none

AUTO-IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: When tungsten burns in air it forms tungsten trioxide, which sublimates above 750°C (1382°F)

EXTINGUISHING MEDIA: Dry powder

FIREFIGHTING INSTRUCTIONS: Wear a self contained breathing apparatus and place material in non-flammable container. 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

SMALL/LARGE SPILL: Avoid dust generation. Provide adequate ventilation and use approved respirators. Vacuum or wet clean up methods are recommended to reduce dust generation. Use an approved filter when vacuuming.

7. Handling and Storage

HANDLING: Maintain good housekeeping practices to prevent dust accumulation.

STORAGE: Keep container closed.

8. Exposure Controls/Personal Protection

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ENGINEERING CONTROLS: General and local ventilation is recommended
RESPIRATORY PROTECTION: A NOISH-approved respirator is required if TLV is exceeded
SKIN AND HAND PROTECTION: Protective gloves are recommended
EYE AND FACE PROTECTION: Safety glasses are recommended
OTHER PROTECTIVE EQUIPMENT: None under normal conditions

9. Physical and Chemical Properties

APPEARANCE: Gray to dark gray powder
BOILING POINT: 5900°C (10652°F)
MELTING POINT: 3410°C (6170°F)

VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
SOLUBILITY IN WATER: Insoluble
DENSITY: 19.3 g/cc
PH: N/A
ODOR: none
PERCENT VOLATILES: <0.1%
EVAPORATION RATE: N/A

10. Stability and Reactivity

CHEMICAL STABILITY: Stable
INCOMPATIBILITY: Tungsten is slightly soluble in nitric acid, sulfuric acid and aqua regia. It is soluble in a mixture of HF 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

11. Toxicological Information

None

12. Ecological Information

None

13. Disposal Consideration

Dispose of the material in accordance with all government regulations. Material can be sold for reclaim.

14. Transportation Information

HAZARD CLASS: None
IATA TRANSPORT INFO: Not regulated, dangerous, hazardous, or restricted for air transport

15. Regulatory Information

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US FEDERAL REGULATIONS

TSCA STATUS: Listed on Toxic Substance Control Inventory

CERCLA REPORTABLE QUANTITY: none

SARA TITLE III: Section 311/312 Hazardous Categories- Acute, Chronic

RCRA STATUS: not regulated

INTERNATIONAL REGULATIONS

CANADIAN WHMIS: not regulated

RISK/SAFETY PHRASES

NONE

16. Other Information

HMIS HAZARD RATING: Health=0, Fire = 0, Reactivity = 0