

# MATERIAL SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Tungsten**Formula :** W**Product Code:** R-W-1001**Chemical Family:** Metal**Synonyms:** Tungsten metal; wolfram**Atomic Weight:** 183.84**Manufacturer:**

Rhexon Metals Co., Ltd.

Red Stone Technology Building, No.512 Wenchuan Rd, Shanghai, China 201906

Tel: +86 21 33191726

Fax: +86 21 33191728

Email: info@rhexon.com

Http:www.rhexon.com

**EMERGENCY PHONE:****SMEC:** (0086) 21 24027777 (Monday-Friday 8:30a.m.-16:30p.m.)

(0086) 120 (24 Hours)

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Wt%
W	7440-33-7	100

## SECTION 3 HAZARDS IDENTIFICATION

**ROUTES OF ENTRY**Inhalation  Skin  Eyes  Ingestion  Others **CARCINOGEN LISTED IN**NTP  IARC Monographs  OSHA Regulated **POTENTIAL HEALTH EFFECTS:****Inhalation:**

Acute: May cause irritation to the respiratory tract.

Chronic: No chronic health effects recorded.

**Skin:**

Acute: May cause abrasive irritation.

Chronic: No chronic health effects recorded.

**Eyes:**

Acute: May cause abrasive irritation.

Chronic: No chronic health effects recorded.

**Ingestion:**

Acute: No acute health effects recorded.

Chronic: Large overdoses may cause nervous system disturbances, and diarrhea.

**Signs and Symptoms:**

**Inhalation:** May cause a red, dry throat, coughing and shortness of breath.

**Skin:** May cause redness and itching.

**Eyes:** May cause redness, itching and watering.

**Ingestion:** May cause diarrhea.

**Target Organs:** May affect the respiratory and central nervous system.

## SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.

**Skin:** Remove contaminated clothing; brush material off skin; wash affected area with mild soap and water; seek medical attention if symptoms persist.

**Inhalation:** Remove victim to fresh air; keep warm and quiet; give oxygen if breathing is difficult and seek medical attention if symptoms persist.

**Ingestion:** Give 1-2 glasses of milk or water and induce vomiting; seek medical attention if symptoms persist. Never induce vomiting or give anything by mouth to an unconscious person.

## SECTION 5 FIRE FIGHTING MEASURE

**Flammable Properties:**

Flash point: Not Applicable

Method used: Not flammable

Explosive limits: LEL/UEL: Not applicable

Auto-ignition Temperature: Not Applicable

**Unusual Fire and Explosion Hazards:**

Not attacked by water, but oxidized by steam.

**Extinguishing Media:** Use suitable extinguishing agent for surrounding material and type of fire.

**Special Fire Fighting Procedures:** Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Wear appropriate respiratory and protective equipment specified in section VIII-control measures. 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 proper disposal. Take care not to raise dust.

## SECTION 7 HANDLING AND STORAGE

**Handling:** Maintain good housekeeping procedures to prevent accumulation of dust. Use clean-up methods which minimize dust generation such as vacuuming or wet clean-up. If airborne dust is generated, use an appropriate NIOSH approved respirator. Do not shake clothing or other items to remove dust. Use a vacuum. Avoid dust inhalation and direct skin contact. Do not ingest. Tungsten metal may ignite on contact with air. Handle and store in a controlled environment and inert gas such as argon.

**Storage:** Store this material in a cool, dry and well-ventilated area. Keep containers tightly closed.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Local and general exhaust ventilation is recommended to control any airborne contaminants and to reduce potential exposure.

### Personal protection

**Eyes:** wear chemical safety glasses or goggles

**Skin:** gloves are recommended when handling solids

**Respirator:** A NIOSH approved air purifying respirator with a particulate filter or a HEPA dust mask is recommended under certain circumstances where airborne concentrations are expected to be elevated or when ventilation is not available. Avoid breathing dust.

**Other:** avoid the use of contact lens in high fume and dust areas. Maintain good housekeeping. Clear up spills immediately. Source of clear water should be available. Good person hygiene is essential. Avoid eating, drinking, or smoking in the work area. Wash hand thoroughly with soap and water immediately upon leaving the working area.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Gray-black pieces

**Odor:** no odor

**Boiling Point:** 5660.00 C (10220.0 F)

**Melting Point:** 3390.00 C (6134.0 F) - 3430.00 C (6206.0 F)

**Specific Gravity:** 19.35 at 20.0 C (68.0 F)

**Solubility in water:** insoluble

**PH:** No data  
**Percent volatile:** no data

## SECTION 10 STABILITY AND REACTIVITY

**General:** stable  
**Conditions to Avoid:** None  
**Incompatible Materials:** Bromine pentafluoride; bromine; chlorine trifluoride; potassium perchlorate; potassium dichromate; nitryl fluoride; fluorine; oxygen difluoride; iodine pentafluoride; hydrogen sulfide; sodium peroxide; lead (IV) oxide; air  
**Hazardous Decompositions or byproducts:** None recorded.  
**Hazardous Polymerization:** Will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Carcinogenicity**  
**Occupational Safety & Health Administration (OSHA)** YES  
**U.N. International Agency for Research on Cancer (IRAC)** YES

**Irritancy of product :** may be a irritancy  
**Sensitization to product:** not established  
**Reproductive toxicity:** not establish  
**Mutagenicity:** not established  
**Teratogenicity:** not established  
**synergistic products:** not established

## SECTION 12 ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

## SECTION 13 DISPOSAL CONSIDERATIONS

Consult local or national regulations to ensure proper disposals

## SECTION 14 TRANSPORT INFORMATION

Not a hazardous material for transportation. Transport in accordance with applicable regulations and requirements.

## SECTION 15 OTHER INFORMATION

### HMIS Hazard Rating

Minimal 0 ; Slight 1 ; Moderate 2; Serious 3; Extreme 4

Health	2
Flammability	3
Reactivity:	0

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