

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
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**MATERIAL SAFETY DATA SHEET (MSDS)****TUNGSTEN POWDER LR****1 - Chemical Product**

MSDS Name:Tungsten

Synonym:None

Cas NO:7440-33-7

Product Coad: T0211900500

Molecular Formula: Mixture

Molecular Weight: 0

**2 - COMPOSITION, INFORMATION ON INGREDIENTS**

| CAS#      | Chemical Name | content | EINECS#   |
|-----------|---------------|---------|-----------|
| 7440-33-7 | Tungsten      | <1.0%   | 231-143-9 |

**3 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Corrosive.

Potential Health Effects

Eye:May cause eye irritation and possible burns.

Skin:Exposure may cause irritation and possible burns.

Ingestion:May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.

Inhalation:May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.

Chronic:No information found.

**4 - FIRST AID MEASURES**

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid if cough or other symptoms appear. Notes to Physician:

**5 - FIRE FIGHTING MEASURES**

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

**7 - HANDLING and STORAGE**

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use only in a chemical fume hood.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

**8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Exposure Limits CAS# 7440-33-7: United Kingdom, WEL - TWA: 5 mg/m3 TWA United Kingdom, WEL - STEL: 10 mg/m3 STEL Germany: 5 mg/m3 TWA (inhalable fraction) Malaysia: 5 mg/m3 TWA Netherlands: 1

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## MATERIAL SAFETY DATA SHEET (MSDS)

### TUNGSTEN POWDER LR

mg/m3 MAC Russia: 6 mg/m3 TWA Spain: 5 mg/m3 VLA-ED Spain: 10 mg/m3 VLA-EC CAS# 7664-41-7: United Kingdom, WEL - TWA: 25 ppm TWA (anhydrous); 18 mg/m3

TWA (anhydrous) United Kingdom, WEL - STEL: 35 ppm STEL (anhydrous); 25 mg/m3 STE (anhydrous) United States OSHA: 50 ppm TWA; 35 mg/m3 TWA Belgium - TWA: 20 ppm VLE; 14 mg/m3 VLE Belgium - STEL: 50 ppm VLE; 36 mg/m3 VLE France - VME: 25 ppm VME; 18 mg/m3 VME France - VLE: 50 ppm VLE; 36 mg/m3 VLE Germany: 50 ppm TWA; 35 mg/m3 TWA Japan: 25 ppm OEL; 17 mg/m3 OEL Malaysia: 25 ppm TWA; 17 mg/m3 TWA Netherlands: 50 ppm STEL; 36 mg/m3 STEL Netherlands: 20 ppm MAC; 14 mg/m3 MAC Russia: 20 mg/m3 TWA Spain: 20 ppm VLA-ED; 14 mg/m3 VLA-ED Spain: 50 ppm VLA-EC; 36 mg/m3 VLA-EC CAS# 7732-18-5: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
 Skin: Wear appropriate protective gloves to prevent skin exposure.  
 Clothing: Wear appropriate protective clothing to prevent skin exposure.  
 Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid  
 Color: colorless  
 Odor: Not available.  
 pH: Not available.  
 Vapor Pressure: Negligible  
 Viscosity: Not available.  
 Boiling Point: Not available.  
 Freezing/Melting Point: Not available.  
 Autoignition Temperature: Not applicable.  
 Flash Point: Not applicable.  
 Explosion Limits, lower: Not available.  
 Explosion Limits, upper: Not available.  
 Decomposition Temperature: Not available.  
 Solubility in water: Soluble in water.  
 Specific Gravity/Density: 1.00

#### 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.  
 Conditions to Avoid: None reported.  
 Incompatibilities with Other Materials: None reported.  
 Hazardous Decomposition Products:  
 Carbon monoxide, oxides of nitrogen, carbon dioxide.  
 Hazardous Polymerization: Has not been reported

#### 11 - TOXICOLOGICAL INFORMATION

RTECS#:  
 CAS# 7440-33-7: YO7175000 CAS# 7664-41-7: BO0875000 CAS# 7732-18-5: ZC0110000 LD50/LC50:  
 CAS# 7440-33-7: Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild.  
 CAS# 7664-41-7: Inhalation, mouse: LC50 = 4230 ppm/1H; Inhalation, mouse: LC50 = 4600 mg/m3/2H; Inhalation, rabbit: LC50 = 7 gm/m3/1H; Inhalation, rat: LC50 = 2000 ppm/4H; Inhalation, rat: LC50 = 18600 mg/m3/5M; Inhalation, rat: LC50 = 7040 mg/m3/30M; Skin, rat: LD50 = 112000 mg/m3/15M; Skin, rat: LD50 = 71900 mg/m3/30M; Skin, rat: LD50 = 4840 mg/m3/60M.  
 CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.  
 Carcinogenicity:  
 Tungsten - Not listed by ACGIH, IARC, or NTP.  
 Ammonia - Not listed by ACGIH, IARC, or NTP.  
 Water - Not listed by ACGIH, IARC, or NTP.  
 Other:  
 See actual entry in RTECS for complete information.

#### 12 - ECOLOGICAL INFORMATION

#### 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

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**MATERIAL SAFETY DATA SHEET (MSDS)****TUNGSTEN POWDER LR****14 - TRANSPORT INFORMATION**

IATA  
Not regulated as a hazardous material.  
IMO  
Not regulated as a hazardous material.  
RID/ADR  
Not regulated as a hazardous material.  
USA RQ: CAS# 7664-41-7: 100 lb final RQ; 45.4 kg final RQ

**15 - REGULATORY INFORMATION**

European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: Not available.  
Risk Phrases:  
Safety Phrases:  
WGK (Water Danger/Protection)  
CAS# 7440-33-7: No information available.  
CAS# 7664-41-7: 2  
CAS# 7732-18-5: No information available.  
Canada  
CAS# 7440-33-7 is listed on Canada's DSL List.  
CAS# 7664-41-7 is listed on Canada's DSL List.  
CAS# 7732-18-5 is listed on Canada's DSL List.  
CAS# 7440-33-7 is listed on Canada's Ingredient Disclosure List.  
CAS# 7664-41-7 is listed on Canada's Ingredient Disclosure List.  
CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.  
US FEDERAL  
TSCA  
CAS# 7440-33-7 is listed on the TSCA inventory.  
CAS# 7664-41-7 is listed on the TSCA inventory.  
CAS# 7732-18-5 is listed on the TSCA inventory.

**16. Other Information**

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**