

## **MATERIAL SAFETY DATA SHEET**

### **TUNGSTEN (VI) OXIDE (Extra Pure) MSDS CAS : 1314-35-8**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name : TUNGSTEN (VI) OXIDE**

**CAS#: 1314-35-8**

**C.I. No.: Not available.**

**Synonym : Not available.**

**Chemical Name: Not available.**

**Chemical Formula: WO<sub>3</sub>**

**Brand: OXFORD**

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification: OXFORD LAB FINE CHEM LLP**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
TUNGSTEN (VI) OXIDE	1314-35-8	100%

## Section 3: Hazards Identification

### Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45

Classification : Xn; R22

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## Section 4: First Aid Measures

### Description of first aid measures

#### **Inhalation**

Assure fresh air breathing. Allow the victim to rest.

#### **Skin contact**

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

#### **Eye contact**

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

#### **Ingestion :**

Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

### Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard.

### Indication of any immediate medical attention and special treatment needed

**General information:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## Section 5: Fire and Explosion Data

### Extinguishing media

#### Extinguishing media

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

#### Special hazards arising from the substance or mixture

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

#### Advice for fire-fighters

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

#### Special procedures

: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## Section 6: Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

**For emergency responders** : Equip cleanup crew with proper protection.  
Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

#### Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### Methods and materials for containment and cleaning up

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

## Section 7: Handling and Storage

### Precautions for safe handling

#### Handling

: Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

#### Technical protective measures

: Provide good ventilation in process area to prevent formation of vapour.

### Conditions for safe storage, including any incompatibilities

#### Storage

: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

#### Storage - away from

: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### Specific end uses

#### Specific end use(s)

: None.

## Section 8: Exposure Controls/Personal Protection

### Personal protection

- Respiratory protection
- Hand protection
- Eye protection
- Others

: Avoid all unnecessary exposure.

: Wear approved mask.

: Wear protective gloves.

: Chemical goggles or safety glasses.

: When using, do not eat, drink or smoke.

### Control parameters

#### Occupational Exposure Limits

: No data available.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

#### Physical state at 20 °C

: Solid.

#### Color

: Light yellow

#### Odor

: Odourless

#### Odor threshold

: No data available.

#### pH value

: Not applicable

#### Melting point [°C]

: 1470 - 1475 °C

## Section 9: Physical and Chemical Properties (Continued)

Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: 7,16
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 6.1 at 100 g/l
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A
Molecular Weight	: 231.85

### Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidizing properties	: No data available.

## Section 10: Stability and Reactivity Data

### Reactivity

Reactivity : Not established.

### Chemical stability

Chemical stability : Stable under recommended storage conditions.

## Section 10: Stability and Reactivity Data (Continued)

### Possibility of hazardous reactions

Hazardous reactions : Not established.

### Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### Incompatible materials

Materials to avoid : Strong acids. Strong bases.

### Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.  
May release flammable gases.

## Section 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

- |                        |   |
|------------------------|---|
| • Inhalation           | : Based on available data, the classification criteria are not met. |
| • Dermal               | : Based on available data, the classification criteria are not met. |
| • Ingestion            | : Harmful if swallowed.   |
| Corrosion              | : Based on available data, the classification criteria are not met. |
| Irritation             | : Based on available data, the classification criteria are not met. |
| Sensitization          | : Based on available data, the classification criteria are not met. |
| Mutagenicity           | : Based on available data, the classification criteria are not met. |
| Carcinogenicity        | : Based on available data, the classification criteria are not met. |
| Toxic for reproduction | : Based on available data, the classification criteria are not met. |
| STOT-single exposure   | : Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | : Based on available data, the classification criteria are not met. |
| Aspiration hazard      | : Based on available data, the classification criteria are not met. |

## Section 12: Ecological Information

### Toxicity

Toxicity information : Not established.

### Persistence – degradability

Persistence - degradability : Biodegradable.

### Bio accumulative potential

Bio accumulative potential : Not established.

### Mobility in soil

Mobility in soil : Not established.

### Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### Other adverse effects

Environmental precautions: Avoid release to the environment.

## Section 13: Disposal Considerations

### Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Special precautions : Handle empty containers with care because residual vapours are flammable.

## Section 14: Transport Information

### Land transport (ADR-RID)

General information : Not regulated.

### Sea transport (IMDG)

General information : Not regulated

### Air transport (ICAO-IATA)

General information : Not regulated

## Section 15: Other Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**Safety, health and environmental:** Ensure all national/local regulations are observed.

**Regulations/legislation specific for  
The substance or mixture**

**REACH Restrictions - Annex XVII:** The components of this product are not subject to restrictions.

**REACH Authorization - Annex XIV:** The components of this product are not subject to authorization.

### Chemical Safety Assessment

**Chemical Safety Assessment:** It has not been carried out.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

### *Disclaimer:*

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