

MATERIAL SAFETY DATA SHEET

IRIDIUM (METAL) POWDER 99.9% MSDS CAS: 7439-88-5

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: IRIDIUM (METAL) POWDER

CAS#: 7439-88-5

Synonym: Not Available.

Chemical Name: Iridium (Metal) Powder

Chemical Formula: Ir

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
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Iridium (Metal) Powder	7439-88-5	100

Section 3: Hazards Identification

Risk advice to man and the environment: Highly flammable. Irritating to eyes.

Section 4: First Aid Measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire and Explosion Data

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters:

Wear self contained breathing apparatus for fire fighting if necessary.

Further information: Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Personal precautions:

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Section 6: Accidental Release Measures (Continued)

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up:

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition -No smoking. Take measures to prevent the buildup of electrostatic charge.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection: Safety glasses.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Section 8: Exposure Controls/Personal Protection (Continued)

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9: Physical and Chemical Properties

Appearance Form	: Powder
Colour	: Light grey
pH	: No data available
Molecular Weight	: 192.22 g/mole
Melting point	: 2.450 °C
Boiling point	: 4.130 °C
Flash point	: Not applicable
Ignition temperature	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Density	: 22,65 g/cm ³
Water solubility	: No data available

Section 10: Stability and Reactivity Data

Storage stability:

Stable under recommended storage conditions.

Conditions to avoid: Heat, flames and sparks.

Materials to avoid: Strong oxidizing agents, Halogens, Tin/tin oxides, Lead, Zinc

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Iridium oxides

Section 11: Toxicological Information

Acute toxicity: No data available.

Irritation and corrosion: No data available.

Sensitisation: No data available.

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs and Symptoms of Exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects:

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

Section 12: Ecological Information

Elimination information (persistence and degradability): No data available.

Ecotoxicity effects: No data available.

Further information on ecology: No data available.

Section 13: Disposal Considerations

Product:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: METALPOWDER, FLAMMABLE, N.O.S. (Iridium)

UN N°: 3089

H.I. nr: -

ADR - Class: 4.1

ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: METALPOWDER, FLAMMABLE, N.O.S. (Iridium)

UN N°: 3089

IMO-IMDG - Class or division: 4.1

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: METALPOWDER, FLAMMABLE, N.O.S. (Iridium)

UN N°: 3089

IATA - Class or division: 4.1

IATA - Packing group: II

Section 15: Other Regulatory Information

Labelling according to EC Directives

Hazard symbols: F Highly flammable, Xi Irritant

R-phrase(s):

R11 Highly flammable.

R36 Irritating to eyes.

S-phrase(s):

S16 Keep away from sources of ignition - No smoking.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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