



CHINATUNGSTEN

ONLINE MANU. & SALES CORP

3F, NO.25 WH Rd, 2# XIAMEN SOFTWARE PARK,

XIAMEN, FUJIAN, CHINA, 361008

Fax: (86) 592-512-9797

Phone: (86) 592-512-9696

Iridium MSDS

I. PRODUCT IDENTIFICATION

Product Name: Iridium

Formula: Ir

II. HAZARDOUS INGREDIENTS

Hazardous Component: Iridium

Percent (%): 0-100

OSHA/PEL: N/E

ACGIH/TLV: N/E

HMIS Ratings (Powder):

Health: 1

Flammable: 2

Reactivity: 1

HMIS Ratings (Solid):

Health: 0

Flammable: 0

Reactivity: 0

III. PHYSICAL DATA

Boiling Point: 4130 °C

Melting Point: 2410 °C

Specific Gravity: 22.42 g/cc

Solubility in H₂O: Insoluble

Appearance and Odor: Silver-white metallic solid or powder, no odor

IV. FIRE AND EXPLOSION HAZARDS DATA

Flash Point: N/A

Autoignition Temperature: N/E

Flammable Limits: Upper: N/E Lower: N/E

Extinguishing Media: For powder: Use Class D or other metal extinguishing agent.

Special Firefighting Procedures: Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.

Unusual Fire & Explosion Hazard: Powder may ignite spontaneously in air. May emit toxic fumes in case of fire.

V. HEALTH HAZARD DATA

Effects of Exposure:

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

Pure iridium is clinically inert. There are not reports of acute or chronic health effects to workers handling iridium and its compounds. (Sax, Dangerous Properties of Industrial Materials)

Acute Effects:

Inhalation: May cause irritation.

Ingestion: No acute health effects recorded.

Skin: May cause abrasive irritation.

Eye: May cause abrasive irritation.

Chronic Effects: No chronic health effects recorded.

Medical Conditions Generally Aggravated By Exposure: None Known

Carcinogenicity: NTP: No IARC: No OSHA: No

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult and seek medical attention if symptoms persist.

INGESTION: Procedures normally not needed. If large quantities are ingested, seek medical advice.

SKIN: Flush with plenty of water. Seek medical attention if symptoms persist.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if symptoms persist.

VI. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None

Incompatibility (Material to Avoid): Interhalogens, fluorine, chlorine, potassium sulfate, potassium nitrate, lead, zinc and tin.

Hazardous Decomposition Products: Metal oxide fume

Hazardous Polymerization: Will not occur

VII. SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled (Powder): Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. Scoop up or 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. Use non-sparking tools.

Waste Disposal Method: In accordance with Local, State and Federal Waste Disposal Regulations. Has reclaim value as scrap.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: For dusting conditions use a NIOSH approved dust respirator.

Ventilation: Use local exhaust to maintain concentration of exposure at low levels. General exhaust is recommended.

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses

Other Protective Clothing or Equipment: Protective gear suitable to prevent contamination.

IX. SPECIAL PRECAUTIONS

Precautions to Be Taken in Handling and Storage: Store in a tightly sealed container away from heat, sparks and flame. Store in a cool, dry location away from incompatible materials. Avoid breathing dust, mist or fumes resulting from the use of this product. Avoid and control operations which create dusting. Avoid inhalation of metal powder fume and vapor. Storage involves no hazard.

Work Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Maintain eyewash capable of sustained flushing, safety drench shower and facilities for washing.

DOT Regulations:

Solid Forms:

Hazard Class: None

Powder/Sponge:

Hazard Class: 4.1

Identification Number: UN3089

Packing Group: II

Proper Shipping Name: Metal powder, flammable, n.o.s. (Iridium)

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. ESPI shall not be held liable for any damages resulting from contact or from handling the above product.