

http://www.samaterials.com

## Stanford Advanced Materials

We not only sell products, we provide satisfactions.
72 Fairbanks Suite 100, Irvine, CA 92618, USA

Tel: (949) 407-8904 Fax: (949) 812-6690

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# **Material Safety Data Sheet**

Identity: Iridium Formula: Ir

**SECTION I - GENERAL INFORMATION** 

Manufacturer: Stanford Advanced Materials (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight: 192.22

<u>CAS # OSHA PEL ACGIH TLV %</u> 7439-88-5 N/A N/A 0-100

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 4428 °C Vapor Pressure (vs. air or mmHg): N/A

Melting Point: 2450 °C Density: 22.65 g/cm<sup>3</sup> Evaporation Rate: N/A Flash Point: N/A

Solubility in water: Insoluble

Appearance and odor: Grey powder and pieces, odorless

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: Non-flammable Explosive Limits: LEL: N/A UEL: N/A

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.

Unusual Fire and Explosion Hazards: May emit toxic fumes upon decomposition

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): N/A

Incompatibility: sodium peroxide, aqua regia, organic solvents

Hazardous Decomposition or Byproducts: Iridium oxide

Hazardous Polymerization: will not occur

Conditions to avoid (hazardous polymerization): N/A



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### SECTION VI - HEALTH HAZARD DATA

#### Health Hazards (Acute and Chronic):

*Inhalation:* May cause dry throat, coughing and/or breathing difficulty *Ingestion:* May cause nausea, vomiting, cramping and/or breathing problems *Skin*: May

cause itching, swelling, rashes, and/or burning

Eye: Will cause irritation, watering, and/or burning and swelling

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Medical Conditions Aggravated by Exposure: Previous respiratory disorders

#### Emergency and First Aid Procedures:

Inhalation: Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is difficult; seek

medical attention

*Ingestion:* Give 1-2 glasses of milk or water, seek medical attention. Never induce vomiting or give anything by

mouth to an unconscious person

Skin: Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and

seek medical attention if symptoms persist

Eye: Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical

attention

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. 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.

Waste disposal method: Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information: Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling.

## SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

NIOSH approved respirator, impervious rubber gloves, safety glasses, clothes to prevent contact.

#### Ventilation:

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

### Work/Hygienic/Maintenance 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 or smoking. Do not blow dust off clothing or skin with compressed air.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established