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MATERIAL SAFETY DATA SHEET

Section 1- PRODUCT IDENTIFICATION

COMPOSITION Ir	PRODUCT NAME Iridium
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Section 2- HAZARDOUS INGREDIENTS

Note: Products under normal conditions do not represent an inhalation, ingestion or contact health hazard.

MATERIAL OR COMPONENT	CAS NUMBER	WT%	EXPOSURE LIMITS	
			OSHA PEL (Mg/M3)	ACGIH TLV(MG/M3)
Iridium	7439-88-5	100	NE	NE

Section 3- PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS) <input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	APPEARANCE AND ODOR Silver white-metallic powder. No odor.
MELTING POINT (BASE METAL) 2410° C to 2450° C	SPECIFIC GRAVITY 22.4gm/cc

Section 4- FIRE AND EXPLOSION

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N.A.	UEL N.A.
EXTINGUISHING MEDIA Class D or other extinguishing agent. Do not use water.			
SPECIAL FIRED FIGHTING PROCEDURES Wear full face, self-contained breathing apparatus with full protective clothing.			
UNUSUAL FIRE AND EXPLOSION HAZARDS May ignite spontaneously in air. Violent reaction or ignition on contact with interhalogens. Iridium is attacked by F2 and CL2 at red heat; by potassium sulfate or a mixture of potassium hydroxide and nitrate, on fusion, lead, zinc and tin. Does not tarnish in air, on heating strongly, a slightly volatile oxide is formed.			

Section 5- REACTIVITY DATA

STABILITY Stable	INCOMPATABILITY (MATERIALS TO AVOID) Interhalogens, fluorine, chlorine, potassium sulfate, potassium hydroxide and potassium nitrate.
CONDITIONS TO AVOID None	
HAZARDOUS DECOMPOISTION PRODUCTS None	

Section 6- HEALTH HAZARD GUIDE

MAJOR EXPOSURE HAZARD

Inhalation **Skin** **Skin Absorption** **Eye Contact** **Ingestion**

EFFECTS OF OVEREXPOSURE

INHALATION: Acute; May cause irritation (dry throat) Chronic; N/A

INGESTION: Acute; N/A Chronic; N/A

SKIN CONTACT: Acute; May cause abrasive irritation. (redness & itching) Chronic; N/A

EYE CONTACT: Acute; May cause abrasive irritation. (itching & watering) Chronic; N/A

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove from exposed area to fresh air immediately; keep warm and quiet, give oxygen if breathing is difficult.

INGESTION: N/A

SKIN CONTACT: Remove contaminated clothing; brush material off skin. Wash affected area with soap or mild detergent.

EYE CONTACT: Flush eyes with lukewarm water lifting up the upper and lower lids for at least fifteen minutes.

Section 7- SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCEDURES

Wear appropriate respiratory and protective equipment. Isolate the area where the spill occurred and provide ventilation. Vacuum up the 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 METHODS

Observe all federal, state and local regulations when storing or disposing.

Section 8- SPECIAL PROTECTION

RESPIRATORY

NIOSH approved dust respirator

VENTILATION

Local exhaust: To maintain concentration at low levels. Mechanical ventilation recommended.

EYE PROTECTION & PROTECTIVE CLOTHING

Safety glasses, rubber gloves and full protective gear suitable to prevent contamination.

Section 9- SPECIAL PRECAUTIONS

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. Store in a cool dry place.

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