



**MATERIAL SAFETY DATA SHEET**  
COMPLIES WITH 29 CFR 1910.1200.  
OSHA HAZARD COMMUNICATION RULE

**DATE OF LAST REVISION: 03-08-07**

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## CHEMICAL IDENTITY

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LABEL IDENTITY	<b>IRIDIUM</b>
CHEMICAL NAME/SYNONYMS	<b>IRIDIUM</b>
FORMULA	<b>Ir</b>
CHEMICAL FAMILY	<b>METALLIC ELEMENT</b>
CAS REGISTRY NUMBER	<b>7439-88-5</b>
HAZARDOUS INGREDIENTS	<b>IRIDIUM METAL</b>
%: <b>100</b>	TLV: <b>none established</b> OSHA/PEL: <b>none established</b>

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## PHYSICAL AND CHEMICAL PROPERTIES

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COLOR, FORM AND ODOR	<b>Silvery white metal/wire, odorless</b>
BOILING POINT	<b>4130° C</b>
DENSITY (gm/cc)	<b>NA</b>
VAPOR PRESSURE @ 20°	<b>NA</b>
% VOLATILE BY VOLUME (%)	<b>NA</b>
REACTION WITH WATER	<b>NA</b>
EVAPORATION RATE (H2O=1)	<b>NA</b>
SOLUBILITY IN WATER	<b>Insoluble</b>
MELTING POINT	<b>2410° C</b>
SPECIFIC GRAVITY (H2O=1)	<b>22.65 at 20° C</b>

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## FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT	<b>Not Determined</b>
AUTOIGNITION TEMPERATURE (° C)	<b>Not Determined</b>
FLAMMABILITY	<b>Non-flammable</b>
EXTINGUISHING MEDIA	<b>Dry Powder Do Not Use Water</b>
SPECIAL FIRE FIGHTING PROCEDURES	<b>Positive pressure, self-contained breathing apparatus. Wear full protective clothing.</b>
UNUSUAL FIRE & EXPLOSION HAZARDS	<b>Dust, powder, and fume are flammable or explosive when exposed to heat or flame.</b>



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### HEALTH HAZARD INFORMATION

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TOXICITY DATA **NA**

HMIS RATING:

HEALTH: **NA** FLAMMABILITY: **NA** REACTIVITY: **NA** PERSONAL PROTECTION: **NA**

ROUTES OF ENTRY

INHALATION: **ND**  
SKIN: **ND**  
INGESTION: **ND**

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: **None Known**

EFFECTS OF OVEREXPOSURE (acute and chronic): **as solid no known effects**

INHALATION **ND**  
INGESTION **ND**  
DERMAL/EYE **ND**

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CARCINOGENICITY: **ND** NTP: **ND** IARC MONOGRAPHS: **ND** OSHA REGULATE: **ND**

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EMERGENCY FIRST AID PROCEDURES:

INGESTION

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

INHALATION

**Not a hazard under normal use conditions. If exposed to excessive levels of dust or fumes, move to fresh air and seek medical attention.**

SKIN CONTACT

**Flush skin with large amounts of water. If irritation persists, get medical attention.**

EYE CONTACT

**In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.**

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### REACTIVITY DATA

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STABILITY

**Stable**

CONDITIONS CONTRIBUTING TO UNSTABILITY

**NA**

INCOMPATIBILITY (MATERIALS TO AVOID)

**NA**

HAZARDOUS DECOMPOSITION PRODUCTS

**NA**

HAZARDOUS POLYMERIZATION

**Will Not Occur**

CONDITIONS TO AVOID

**NA**



## IRIDIUM MATERIAL SAFETY DATA SHEET

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### SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
**Scoop up or vacuum into a container for reclamation or disposal.**

WASTE DISPOSAL METHOD:

**Keep container closed.**

**Avoid contact with heat, sparks, open flame and static discharge.**

**Store in a cool, dry location away from incompatible materials.**

**Avoid breathing any dust, mist or fumes resulting from the use of this product.**

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### SPECIAL PROTECTIVE INFORMATION

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RESPIRATORY PROTECTION

**NIOSH approved respirator if ventilation is not adequate**

LOCAL EXHAUST

**Need during melting**

MECHANICAL (general)

**ND**

SPECIAL

**ND**

OTHER

**ND**

PROTECTIVE GLOVES

**Recommended during melting**

EYE PROTECTION

**During machine melting**

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### SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

**Storage involves no hazard.**

TRANSPORTATION REQUIREMENTS

DOT CLASS:

**Not Regulated**

UN NUMBER:

**Not Regulated**

IMCO CLASS:

**N. C.**

OTHER:

**NA**

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THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, **ANGSTROM SCIENCES** MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR THE RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

**NA= NOT APPLICABLE**

**ND= NO DATA FOUND**