



IRIDIUM

(Engelhard Corporation, Engineered Materials Group)

MATERIAL SAFETY DATA SHEET

Ionization Gauge Tubes - VARIAN Part Numbers
563 Glass BA - K2466301, 302, 303, 304, 305, 306, 307, 311
564 Glass BA - K2500301, 302, 303, 304, 310, 311
571 Glass BA - K2471301, 302, 303, 304, 305, 306, 307, 311
580 Nude BA - L5150302, L5150303, L5151301,
UHV24 & UHV24p - 9715007, L6651302, 9715015, 9710028
MBA -100 - R1170301, 302, 303,
Eyesys Mini-BA Gauges - R015XXXX
Ion Sources - 82850302, GG82850302

DISTRIBUTED BY:

**VARIAN VACUUM TECHNOLOGIES
121 HARTWELL AVENUE
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MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION

Trade Name:	Iridium	Synonym:	Iridium Metal Products
Chemical Nature:	Metallic Metal	Formula:	Ir
CAS #:	7439-88-5		

II HAZARDOUS INGREDIENTS

TLV (Units): None Published **Wt.:** 100%
Note: The percentage by weight values reported for the ingredients in this product represent approximate formulation values.

HMIS Hazard Media/NFPA Hazard Classification: Health: 1 Flammable: 1 Reactivity: 0

III PHYSICAL DATA

Boiling Point :	4130 °C	Melting Point:	2410 °C
Specific Gravity (H₂O = 1):	22.65 at 20 °C	Vapor Density:	N/A
Appearance and Odor:	Silver white solid, odorless	Solubility in H₂O:	Insoluble/Negligible

IV FIRE AND EXPLOSION HAZARDS DATA

Flash Point (Method used): N/A **Autoignition Temperature:** N/A
Flammable Limits: Upper: N/A **Lower:** N/A

Extinguishing Media: Do not use water. Smother with suitable dry powder.
Special Fire Fighting Procedures: Wear positive-pressure self-contained breathing apparatus.
Unusual Fire & Explosion Hazard: Dust, powder, and fume are flammable or explosive when exposed to heat or flame.

V HEALTH HAZARD DATA

Routes of Entry: Eyes, skin, inhalation, and ingestion.
Effects of Over Exposure: As a solid no known adverse effects.

Potential Health Effects:

Eye Contact: May cause mechanical irritation if exposed to large amounts of dust.
Skin Contact: Prolonged contact may cause mild irritation.
Inhalation: May cause irritation if exposure is prolonged or excessive.
Ingestion: No adverse effects expected.

NOTE: Health effects only apply if dust or fume is formed.

Carcinogenicity: NTP: No IARC: No OSHA: No

Medical Conditions Generally Aggravated By Exposure: None Known

Chronic Health Effects: None Known

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SKIN: Flush with plenty of water. If irritation persists, call a physician.

INHALATION: Procedures normally not needed. If exposed to excessive levels of dust or fumes, remove to fresh air and seek medical attention.

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

VI REACTIVITY DATA

Stability: Stable

Incompatibility (Material to Avoid): Interhalogens

Hazardous Decomposition Products: Toxic Fumes upon thermal decomposition.

Hazardous Polymerization: Will not occur

VII SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled: Vacuum or scoop the spilled material into a container for reclamation or disposal. 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.

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

Exposure Limits: OSHA-PEL: None Established **ACGIH-TLV:** None Established

VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): If dust, NIOSH/MSHA approved respirator.

Ventilation: Recommended where dusting may occur. Local exhaust needed during melting

Protective Gloves: For Extended use of powder, during melt.

Eye Protection: Safety Glasses with side shields.

IX SPECIAL PRECAUTIONS

Other Handling and Storage Conditions:

- ◆ Avoid and control operations which create dusting.
- ◆ Avoid inhalation of metal powder fume and vapor.
- ◆ Storage involves no hazard.

Prepared by: S. Dierks

Dated: January 1998