



### SECTION 1: Product Identification

Chemical Name:	Iridium black (99.9%-Ir)
Product Number:	513
CAS Registry Number:	7439-88-5
Formula:	Ir
EINECS Number:	231-095-9
Chemical Family:	metal or element
Synonym:	none

### SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	7439-88-5	100	no data	no data

### SECTION 3: Hazards Identification

Emergency Overview:	Inhalation hazard as a fine dust or fume.
Primary Routes of Exposure:	Inhalation (of dust or fume)
Eye Contact:	The dust may cause slight to mild irritation of the eyes.
Skin Contact:	The dust may cause slight to mild irritation of the skin.
Inhalation:	Hazard associated with inhalation of fine dust or fume. May be irritating to nasal cavity and respiratory tract.
Ingestion:	No specific information is available on the physiological effects of ingestion.
Acute Health Effects:	Dust may be irritating to skin, eyes and respiratory tract.
Chronic Health Effects:	No information available on the effects of long-term exposure.
NTP:	No
IARC:	No
OSHA:	No



#### SECTION 4: First Aid Measures

Eye Exposure:	Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure:	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation:	Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion:	Seek medical attention immediately. Keep victim calm. Give victim water (only if conscious). Induce vomiting only if directed by medical personnel.

#### SECTION 5: Fire Fighting Measures

Flash Point:	not applicable
Autoignition Temperature:	not applicable
Explosion Limits:	not applicable
Extinguishing Medium:	Dry chemical or Class D metal fire agent.
Special Fire Fighting Procedures:	If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products:	none
Unusual Fire or Explosion Hazards:	Flammable solid. Dust may form explosive mixtures with air. May self-ignite if wetted with alcohols or related organics.

#### SECTION 6: Accidental Release Measures

Spill and Leak Procedures:	Small spills can be mixed with vermiculite or sodium carbonate and swept up.
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#### SECTION 7: Handling and Storage

Handling and Storage:	Store in a tightly sealed container. Handle fine powders in a well-ventilated area.
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## SECTION 8: Exposure Controls and Personal Protection

Eye Protection:	Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection:	Wear protective clothing and gloves.
Ventilation:	Fine dust may become airborne during handling. If possible, handle the material in an efficient fume hood.
Respirator:	If handling fine dust and ventilation is not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
Additional Protection:	No additional protection required.

## SECTION 9: Physical and Chemical Properties

Color and Form:	30-60 m2/g
Molecular Weight:	192.2
Melting Point:	2410°C
Boiling Point:	4130°C
Vapor Pressure:	not applicable
Specific Gravity:	22.421
Odor:	none
Solubility in Water:	Insoluble

## SECTION 10: Stability and Reactivity

Stability:	air and moisture stable
Hazardous Polymerization:	no hazardous polymerization
Conditions to Avoid:	If used as a catalyst, keep spent catalyst away from combustibles. They could ignite.
Incompatibility:	Oxidizing agents and halogens
Decomposition Products:	none

## SECTION 11: Toxicological Information



RTECS Data:	No information available in the RTECS files.
Carcinogenic Effects:	No data available
Mutagenic Effects:	No data available
Teratogenic Effects:	No data available
<b>SECTION 12: Ecological Information</b>	
Ecological Information:	No information available.
<b>SECTION 13: Disposal Considerations</b>	
Disposal:	Dispose of according to local, state, and federal regulations.
<b>SECTION 14: Transportation</b>	
Shipping Name (CFR):	Metal Powder, Flammable, N.C.3
Hazard Class (CFR):	4.1
Additional Hazard Class (CFR):	NA
Packaging Group (CFR):	III
UN ID Number (CFR):	UN# 3089
Shipping Name (IATA):	Metal Powder, Flammable, N.O.S.
Hazard Class (IATA):	4.1
Additional Hazard Class (IATA):	NA
Packaging Group (IATA):	III
UN ID Number (IATA):	UN# 3089
<b>SECTION 15: Regulatory Information</b>	
TSCA:	Listed in the TSCA inventory



SARA (Title 313): Title compound not listed

Second Ingredient: none

Third Ingredient: none