

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Iridium (III) chloride

1. Product and Company Identification		
Trade Name:	Iridium (III) chloride	
Chemical Formula:	IrCl ₃	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Gazelle Valley, High-Tech Zone	
City:	XI'AN	
State:	Shannxi	
Zip Code:	710077	
Country:	China	
Tel #:	+86-29-88993870/+86-13519132051	
	2. Hazards Identification	
Signal Word:	Danger	
Hazard Statements:	H290: May be corrosive to metals	
	H314: Causes severe skin burns and eye damage	
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapors/spray	
	P264: Wash skin thoroughly after handling	
	P280: Wear protective gloves/protective clothing/eye protection/face	
	protection	
	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce	
	vomiting	
	P303+P361+P353: IF ON SKIN (or hair): Remove/Take off	
	immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at res	
	in a position comfortable for breathing	
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for	
	several minutes. Remove contact lenses if present and easy to do –	
	continue rinsing	
	P337+P313: If eye irritation persists get medical advice/attention	
	P405: Store locked up	
	P405: Store locked up P406: Store in a corrosive resistant container with a resistant inner line	
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HMIS Health Ratings (0-4):	P406: Store in a corrosive resistant container with a resistant inner line P501: Dispose of contents/container in accordance with	
Health:	P406: Store in a corrosive resistant container with a resistant inner line P501: Dispose of contents/container in accordance with	
HMIS Health Ratings (0-4): Health: Flammability: Physical:	P406: Store in a corrosive resistant container with a resistant inner line P501: Dispose of contents/container in accordance with local/regional/national/international regulations	

3. Composition		
Material Family:	Salt	
Additional Names:	Iridium trichloride	
Iridium (III) chloride (IrCl ₃):		
Percentage:	100 wt%	
CAS #:	10025-83-9	
EC #:	233-044-6	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
Flammability:	Non-flammable	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.	
	6. Accidental Release Measures	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Use neutralizing agent. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Avoid contact with the eyes and skin. Handle under dry protective gas.	
Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store away from water/moisture, strong bases, oxidizing	
	agents, metals. This product is hygroscopic. Protect from humidity and water. Store apart from materials and conditions listed in section 10.	
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Respiratory Protection:	Use a recommended dust respirator or mask. Only use equipment tested and approved under appropriate government standards.	
Protective Gloves:	Nitrile rubber gloves with minimum thickens of 0.11 mm	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.	
	9. Physical and Chemical Characteristics	
Color	N/A	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	N/A	
Water Solubility:	Soluble	

N/A

Boiling Point:

Bonnig Point.	IN/A
Melting Point:	763 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	298.58 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, bases, metals, acids, alkali metal salts, copper, zinc
	salts, cyanides
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Metal oxide fume, hydrogen chloride gas, iridium oxides
fuzurdous Decomposition Froducts.	Would oxide fullie, Hydrogen enforme gas, Marain oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
	27/4
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative: Notes:	N/A Do not allow undiluted product or large quantities to reach ground
Notes:	water, water course or sewage system.
	Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, state	, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only.
	CORROSIVE 8
Hazard Class:	8 Corrosive substances
Packing Group:	II
UN Number: Proper Shinning Name:	UN3260 Corrosive solid, acidic, inorganic, n.o.s. (Iridium (III) chloride)
Proper Shipping Name:	Corrosive sona, acidic, morganic, n.o.s. (manum (m) chioride)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A No
Sec 313 Toxic Chemicals:	No
	16. Other Information

given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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