

## LTS Research Laboratories, Inc. Safety Data Sheet Iridium (III) chloride

## 1. Product and Company Identification

Trade Name: Iridium (III) chloride

Chemical Formula: IrCl<sub>3</sub>

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

## 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

 $P280: We ar protective \ gloves/protective \ clothing/eye \ protection/face$ 

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 rest

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

P406: Store in a corrosive resistant container with a resistant inner liner

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition	
Material Family: Additional Names:	Salt Iridium trichloride
Iridium (III) chloride (IrCl <sub>3</sub> ):	
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.
Ingestions	Keep patient warm. Seek immediate medical attention.  Seek immediate medical attention.
Ingestion: Skin:	Immediately wash affected area with mild soap and water. Remove any
JKIII.	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
ar remaining process	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
2 22/812 2.1411112-114112-	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.

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
Boiling Point: N/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

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

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: N/A

Notes: Do not allow undiluted product or large quantities to reach ground

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.



Hazard Class: 8 Corrosive substances

Packing Group:

UN Number: UN3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Iridium (III) chloride)

15. Regulatory Information

- C. Research

Sec 302 Extremely Hazardous:

No
Sec 304 Reportable Quantities:

N/A
Sec 313 Toxic Chemicals:

No

## 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The 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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