

LTS Research Laboratories, Inc. Safety Data Sheet Iridium Chloride Hydrate

1. Product and Company Identification

Trade Name: Iridium Chloride Hydrate

Chemical Formula: IrCl₃.xH₂O

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont State: North Carolina

Zip Code: 28012 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: H314: Causes severe skin burns and eye damage

H319: Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash face, hands, and any exposed skin thoroughly after

handling

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P363: Wash contaminated clothing before reuse

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

P403+P233: Store in a well-ventilated place. Keep container tightly

closed

P501: Dispose of contents/container in accordance with local/regional/

national/international regulations

HMIS Health Ratings (0-4):

Health: 3 Flammability: 0 Physical: 0

3. Composition

Chemical Family: Chlorides

Additional Names: Iridium Trichloride Hydrate

Iridium Chloride Hydrate (IrCl₃.xH₂O):

Percentage: 100 wt% CAS #: 14996-61-3 EC #: 233-044-6

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: N/A

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Seek medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical

attention.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing. Seek medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek medical

attention.

5. Firefighting Measures

Flammability: Non-flammable

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire. Do not use water for metal fires –

use CO₂, sand, extinguishing powder.

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. Isolate spill area and provide ventilation. 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: Wash thoroughly after handling.

Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:**

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

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: None Threshold Limit Value: None

Special Equipment: None

Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves

Check gloves prior to each use

Safety glasses or goggles Eye Protection:

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Black

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless

Redearch Water Solubility: N/A ratorias, Inc. **Boiling Point:** N/A

Melting Point: 763 °C Flash Point: N/A

Autoignition Temperature: N/A Density: 5.3 g/ml 298.58 g/mol Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Strong oxidizing agents, Acids, Bases, Alkali metal salts, Copper, Zinc

salts, Cyanides

Incompatible Conditions: None

Hazardous Decomposition Products: Hydrogen chloride, Metal oxides

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
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: N/A

12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A
Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 8
Packing Group: II
UN Number: UN3260

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

15. J	Regu	latory .	Information
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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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