



LTS Research Laboratories, Inc.
Safety Data Sheet
Cryolite

1. Product and Company Identification

Trade Name: Cryolite
Chemical Formula: Na_3AlF_6
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: H301 Toxic if swallowed
H332 Harmful if inhaled
H372 Causes damage to peripheral nervous system, kidneys, bladder through prolonged or repeated exposure: oral/inhalative
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements: P260 Do not breathe dust/fume/vapor
P301+P310 If swallowed: immediately call a poison center/doctor
P 304+P340 If inhaled: Remove person to fresh air and keep comfortable

HMIS Health Ratings (0-4):
Health: 2
Flammability: 0
Physical: 1

3. Composition

Chemical Family: Salt
Additional Names: Sodium hexafluoroaluminate, Sodium Aluminum fluoride

Cryolite (Na_3AlF_6):
Percentage: 100 wt%
CAS #: 15096-52-3
13775-53-6
EC #: 239-148-8
237-410-6

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. |
| Ingestion: | Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. |
| Skin: | Wash affected area with mild soap and water. Remove any contaminated clothing. |
| Eyes: | Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing |

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

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|----------------------------------|--|
| 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

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|----------------------------|--|
| Handling Conditions: | Wash thoroughly after handling. |
| Storage Conditions: | Store in a cool dry place in a tightly sealed container. 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 compressed air. |
| Ventilation: | Provide sufficient ventilation to maintain concentration at or below threshold limit. |

8. Exposure Controls and Personal Protection

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|------------------------------|---|
| Permissible Exposure Limits: | 2.5 mg/m ³ as F, long-term value |
| Threshold Limit Value: | 2.5 mg/m ³ as F, long-term value |
| Special Equipment: | None |
| Respiratory Protection: | Dust Respirator |
| Protective Gloves: | Rubber gloves |
| 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 | White or Beige |
| Form: | Powder, Granules, Pellets, Sputtering target, Custom parts |
| Odor: | Odorless |
| Water Solubility: | 0.4 g/L |
| Boiling Point: | N/A |
| Melting Point: | 1000 °C |
| Flash Point: | N/A |
| Autoignition Temperature: | N/A |
| Density: | 2.90 g/cc |
| Molecular weight: | 160.08 g/mol |

10. Reactivity

| | |
|-----------------------------------|---|
| Stability: | Stable under recommended storage conditions |
| Reacts With: | Bases |
| Incompatible Conditions: | None |
| Hazardous Decomposition Products: | Hydrogen fluoride, Metal oxide fume |

11. Toxicological Information

Potential Health Effects:

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|-------------|--|
| Eyes: | Strong corrosive effect |
| Skin: | Corrosive effect |
| Ingestion: | Toxic |
| Inhalation: | Harmful |
| Chronic: | Causes damage to peripheral nervous system, kidneys, bladder through prolonged or repeated exposure: oral/inhalative Fluorides may cause salivation, nausea, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May cause brain and kidney damage. Chronic fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects. Aluminum may be implicated in Alzheimers disease. Inhalation of aluminum containing dusts may cause pulmonary disease |

Signs & Symptoms: N/A

Aggravated Medical Conditions: N/A

Median Lethal Dose: >5000 mg/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

| | |
|--|---|
| Aquatic Toxicity: | Moderate |
| Persistent Bioaccumulation Toxicity: | No |
| Very Persistent, Very Bioaccumulative: | No |
| Notes: | Danger to drinking water even in small quantities |

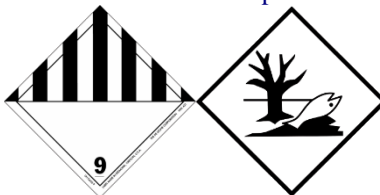
13. Disposal Considerations

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

14. Transportation Data

Hazardous:

Hazardous for transportation.



Hazard Class:

9 Miscellaneous dangerous substances and articles

Packing Group:

III

UN Number:

UN3077

Proper Shipping Name:

Environmentally hazardous substance, solid, n.o.s. (Cryolite)

15. Regulatory Information

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.

Document Last Revised:

04/24/2015

