

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Lithium Hexafluorogermanate

Chemical Formula: Li_2GeF_6

Manufacturer Item Number: LI-2855

Manufacturer: Lorad Chemical Corporation
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2. HAZARD IDENTIFICATION

Signal Word: Danger

Pictograms:



Hazard Statements:

H313 May be harmful in contact with skin.
H319 Causes serious eye irritation.
H333 May be harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

H201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust / fumes / gas / mist / vapors / spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301+330+331+315 IF SWALLOWED: Rinse mouth. Do not induce vomiting. Get immediate medical advice / attention.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes.
P308+313 IF EXPOSED OR CONCERNED: Get medical advice / attention.
P333+313 IF SKIN IRRITATION OR RASH OCCURS: Get medical advice / attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

HMIS Health Ratings (0-4)

- Health: 2*
- Flammability: 0
- Physical: 0

3. COMPOSITION

Additional Names:	Lithium Germanium Fluoride
Percentage:	100 wt%
CAS #:	16903-41-6
EC #:	No Data Available.

4. FIRST AID PROCEDURES

General Treatment	Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.
Special Treatment:	No Data Available.
Important Symptoms:	The most important known symptoms and effects are described in the labeling in Section 2 and / or Section 11.
Inhalation:	If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin:	For skin contact, flush with large amounts of soap and water while removing contaminated clothing. Consult a physician.
Eyes:	Immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Consult a physician.

5. FIREFIGHTING MEASURES

Flammability:	Non-flammable.
Special Hazards from Substance:	No Data Available.
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Sweep up or vacuum up spillage and collect in suitable closed container for disposal. Dispose of waste in accordance with applicable federal, state, local, and provincial environmental regulations.
Environmental Precautions:	Prevent further leakage or spills if safe to do so. Do not allow to enter drains, sewers, or watercourses. Discharge into the environment must be avoided.

7. HANDLING AND STORAGE

Handling Conditions:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide adequate exhaust ventilation at places where dust is formed. For additional precautions see Section 2.
Storage Conditions:	Keep container tightly closed in a dry and well ventilated place.

SAFETY DATA SHEET

Work / Hygienic Maintenance:	Do not eat, drink, or smoke when working with this product. Wear protective gloves, protective mask, protective eyewear, and protective clothing and wash skin thoroughly with soap after handling. Keep formation of airborne dusts to a minimum. Guard against dust accumulation. In case of insufficient ventilation, wear suitable respiratory equipment. For additional precautions see Section 2.
Ventilation:	Keep in well ventilated area.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits:	No Data Available
Threshold Limit Value:	No Data Available
Special Equipment:	Safety shower, eye wash facility installed near handling place.
Respiratory Protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineered controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Protective Gloves:	Handle with gloves. Gloves must be inspected prior to use. use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye Protection:	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Body Protection:	Protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	white
Forms:	powder
Odor:	Odorless
Water Solubility:	53.9 g (100 g water solubility) (25°C)
Boiling Point:	No Data Available.
Melting Point:	510°C decomposes
Flash Point:	No Data Available.
Autoignition Temperature:	No Data Available.
Density:	No Data Available.
Molecular Weight:	200.51 g/mol

10. REACTIVITY

Stability:	Stable under recommended storage conditions.
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SAFETY DATA SHEET

Reacts with:	When it absorbs moisture, it hydrolyzes and generates Hydrogen fluoride gas and germanium fluoride.
Incompatible Conditions:	Moisture / water
Hazardous Decomposition Products:	Hydrogen fluoride, Germanium fluoride

11. TOXICOLOGICAL INFORMATION**Potential Health Effects:**

- Eyes	Causes serious eye irritation.
- Skin	May be harmful in contact with skin.
- Ingestion	May cause damage to organs through prolonged or repeated exposure.
- Inhalation	May be harmful if inhaled.
- Chronic	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 may cause severe bone changes, loss of weight, anorexia, anemia, and dental defects.

Signs and Symptoms: No Data Available.

Aggravate Medical Conditions: No Data Available.

Median Lethal Dose: No Data Available.

Carcinogen: No classification data on carcinogenic properties of this material is available from OSHA, NTP, or IARC.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No Data Available.

Persistence and degradability: No Data Available.

Bioaccumulative potential: No Data Available.

Notes: No Data Available.

13. DISPOSAL CONSIDERATIONS

Disposal: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an appropriated waste handling site for recycling or disposal. Dispose of in accordance with local, state, or national regulations.

14. TRANSPORTATION DATA

Hazardous: Hazardous for transportation

Pictogram:



Hazard Class: 8 Corrosive substance

Packing Group: III

UN Number: UN1759

Proper Shipping Name: Corrosive solid, inorganic, n.o.s. (Lithium Hexafluorogermanate)

15. REGULATORY INFORMATION

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	No material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimus) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard
Massachusetts Right to Know Components	No components are subject to Ma. Right to Know Act.
Pennsylvania Right to Know Components	Lithium Germanium Fluoride (Cas No. 16903-41-6)
New Jersey Right to Know Components	Lithium Germanium Fluoride (Cas No. 16903-41-6)
California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Copyright 2017 Lorad Chemical Corporation. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety standards. It does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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