

LTS Research Laboratories, Inc. Safety Data Sheet

Potassium Fluoride Dihydrate

1. Product and Company Identification

Trade Name: Potassium Fluoride Dihydrate

Chemical Formula: KF.2H₂O

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: Da



Hazard Statements: H301 + H311 + H331: Toxic if swallowed, in contact with skin or if

inhaled.

H318: Causes serious eye damage.

Precautionary Statements: P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

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

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

P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON

CENTER/doctor. Rinse mouth.

P302+ P352 + P312: IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.

P304 + P340 + P311: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing.

P361: Remove/Take off immediately all contaminated clothing.

P363: Wash contaminated clothing before reuse.

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

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition

Chemical Family: Inorganic Compound

Additional Names: N/A

Potassium Fluoride Dihydrate (KF.2H₂O):

Percentage: 100 wt% CAS #: 13455-21-5 EC #: 232-151-5

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None

Important Symptoms: Causes severe eye damage

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

Ingestion: Give one to two glasses of water. 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

toretories, inc.

5. Firefighting Measures

Flammability: Non-flammable, except as powder

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. Avoid contact with skin and eyes.

Hygroscopic

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

materials and conditions listed in section 10.

Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance:

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: 2.5 mg/m³ as KF.2H₂O, long-term value

Threshold Limit Value: 2.5 mg/m³ as KF.2H₂O, long-term value

Special Equipment: None

Respiratory Protection: **Dust Respirator**

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

Eve 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

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

N/A Odor:

Research Water Solubility: N/A etories, inc. 156 °C **Boiling Point:**

41 °C Melting Point: Flash Point: N/A

Autoignition Temperature: N/A Density: 2.454 g/cc Molecular weight: 94.13 g/mol

10. Reactivity

Stability: Hygroscopic

Reacts With: Oxidizing agents, Moist air or water, Strong acids.

Incompatible Conditions: Exposure to moist air or water. Reacts dangerously with glass Hazardous Decomposition Products:

Metal oxide fume, Hydrogen fluoride, Potassium oxides

11. Toxicological Information

Potential Health Effects:

Eves: Causes serious eve damage Skin: Toxic in contact with skin Toxic if swallowed Ingestion:

Inhalation: Toxic if inhaled

Chronic: N/A

Signs & Symptoms: N/A Aggravated Medical Conditions: N/A

Median Lethal Dose: 245 mg/kg for rat by mouth

Carcinogen: N/A

12.	Ecol	logical	Inforn	nation
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Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: No
Very Persistent, Very Bioaccumulative: No
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: 6.1 Toxic and infectious substances

Packing Group:

UN Number: UN1812

Proper Shipping Name: Potassium fluoride, solid

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.

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