

LTS Research Laboratories, Inc. Safety Data Sheet Zinc Fluoride

1. Product and Company Identification

Trade Name: Zinc fluoride

Chemical Formula: ZnF₂

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

H335: May cause respiratory irritation

H315: Causes skin irritation

H319: Causes serious eye irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

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

protection

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

continue rinsing

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

or doctor/physician 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: 1

3. Composition		
Chemical Family:	Salt	
Additional Names:	None	
Zinc Fluoride (ZnF ₂):		
Percentage:	100 wt%	
CAS #:	7783-49-5	
EC #:	232-001-9	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	Immediately remove any clothing soiled by the product. In case of	
	irregular breathing or respiratory arrest provide artificial respiration.	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Ingestion: Skin:	Seek medical attention.	
SKIII.	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	
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.	
Participant of Proceedings	Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from	
Work/Hygienic Maintenance:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before	
work/nygienic Mannenance:	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 F, long-term value Threshold Limit Value: 2.5 mg/m³ as F, long-term value

Special Equipment: None

Respiratory Protection: Dust Respirator Protective Gloves: Rubber gloves

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

Odor: **Odorless** Water Solubility: 16.2 g/l **Boiling Point:** 1500 °C **Melting Point:** 872 °C Flash Point: N/A **Autoignition Temperature:** N/A Density: 4.95 g/cc 103.38 g/mol Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions

Oxidizing agents Reacts With:

Incompatible Conditions:

Metal oxide fume, Hydrogen fluoride Hazardous Decomposition Products:

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage Skin: Causes skin irritation Ingestion: May cause irritation Inhalation: May cause irritation

Zinc containing fumes may cause metal fume fever. Effects include dry Chronic:

throat, metallic taste, chest pain, dyspnea, rales, and dry cough. Several hours later, chills may occur with lassitude, malaise, fatigue, headache, back pain, Muscle cramps, blurred vision, nausea, fever, perspiration,

vomiting and leukocytosis.

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.

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

Median Lethal Dose: N/A

Carcinogen: N/A

Persistent Bioaccumulation Toxicity:	Low No
- · · · · · · · · · · · · · · · · · · ·	No.
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
1;	3. Disposal Considerations

14. Transportation Data

Hazardous: Hazardous as powder and pieces



Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN3288

Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Zinc fluoride)

	15. Regulatory Information	
202 Extremely Hezerdous	No.	

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:
Sec 313 Toxic Chemicals:

No
N/A
Yes

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: 07/06/2015