

LTS Research Laboratories, Inc. Safety Data Sheet Samarium fluoride

1. Product and Company Identification	
Trade Name:	Samarium fluoride
Chemical Formula:	SmF_3
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:	H302+H312: Harmful if swallowed or in contact with skin H331: Toxic if inhaled H315 Causes skin irritation H319 Causes serious eye irritation H335: May cause respiratory 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
	P304+P340: IF INHALED: Remove victim to fresh air and keep at res
	in a position comfortable for breathing
	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
Physical:	U

3. Composition		
Chemical Family:	Salt	
Additional Names:	Samarium(III) fluoride, Samarium trifluoride, Trifluorosamarium	
Samarium fluoride (SmF ₃):		
Percentage:	100 wt%	
CAS #:	13765-24-7	
EC #:	237-367-3	
	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:	seek medical attention.	
Skin:	Wash affected area with mild soap and water. Rub in calcium	
	gluconate solution or calcium gluconate gel immediately. Remove any	
E	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing	
	contact renses in present and easy to do. Continue missing	
	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	
n machai is Released Spined.	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.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from	
XX7. J. /IX. State N. C. S.	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	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below	
vonunation.	rouge sufficient ventilation to manually concentration at Or Delow	

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 Off-white Form: Powder Odor: Odorless Water Solubility: Insoluble **Boiling Point:** 2323 °C Melting Point: 1306 °C Flash Point: N/A Autoignition Temperature: N/A Density: 6.6 g/cc 207.36 g/mol Molecular weight: 10. Reactivity Stability: Stable under recommended storage conditions **Reacts With:** None Research Incompatible Conditions: None ratorias, inc Hydrogen fluoride Hazardous Decomposition Products: 11. Toxicological Information Potential Health Effects: Eyes: Causes serious eye damage. Skin: Harmful, Danger through skin absorption, Causes irritation Ingestion: Harmful Inhalation: Harmful Lanthanons can cause delayed blood clotting leading to hemorrhages. Chronic: Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage. 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. Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: N/A Carcinogen: N/A

	12. Ecological Information	
Aquatic Toxicity:	Low	
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.	
	POISON 6	
Hazard Class:	6.1 Toxic substances	
Packing Group:	III	
UN Number:	UN3288	
Proper Shipping Name:	Toxic solid, inorganic, n.o.s. (samarium fluoride)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A C-A-Research	
Sec 313 Toxic Chemicals:	No. 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:

07/01/2015