

# LTS Research Laboratories, Inc. Safety Data Sheet Samarium fluoride

### 1. Product and Company Identification

Trade Name: Samarium fluoride

Chemical Formula: SmF<sub>3</sub>

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 rest

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

3 Composition		
3. Composition		
Chemical Family: Additional Names:	Salt Scandium(III) fluoride	
Samarium fluoride (SmF <sub>3</sub> ):		
Percentage:	100 wt%	
CAS #: EC #:	13709-47-2	
EC#:	237-255-4	
	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 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	
Spec. The Fighting Frocedure.	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.	
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	
Ventilation:	compressed air.  Provide sufficient ventilation to maintain concentration at or below threshold limit.	

# 8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 2.5 mg/m<sup>3</sup> as F, long-term value Threshold Limit Value: 2.5 mg/m<sup>3</sup> 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 Form: **Pallets** Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** 1515 °C Flash Point: N/A **Autoignition Temperature:** N/A 2.5 g/cc Density: Molecular weight: 101.95 g/mol

### 10. Reactivity

Stable under recommended storage conditions Stability:

Reducing agents Reacts With:

**Incompatible Conditions:** None

Hydrogen fluoride, Metal oxide fume 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

Scandium has a low order of toxicity. As with calcium, the toxicity is Chronic:

generally a function of the anion.

Fluoride poisoning can cause severe bone changes, loss of weight,

anorexia, anemia and dental defects.

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

N/A Median Lethal Dose:

Carcinogen: N/A

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN3288

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

	15. Regulatory Information	
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A No Research 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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