



Section 1 - Chemical Product and Company Identification

Product Name	Sodium Fluoride extrapure AR, 99%
Product Code	29821
CAS No	7681-49-4
Use for	Laboratory Chemicals.
Company Name	Sisco Research Laboratories Pvt. Ltd.
Address	608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road, Andheri (E), Mumbai - 400 099, India

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS/ELINCS
7681-49-4	Sodium fluoride	<=100	231-667-8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Toxic if swallowed. Contact with acids liberates very toxic gas. Irritating to eyes and skin. Moisture sensitive.

Potential Health Effects

Eye: Causes moderate eye irritation.

Skin: Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

Ingestion: May be fatal if swallowed. Poison by ingestion. May cause respiratory failure. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns. May cause circulatory system failure.

Inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. The toxicological properties of this substance have not been fully investigated.

Chronic: Chronic inhalation and ingestion may cause chronic fluoride poisoning (fluorosis) characterized by weight loss, weakness, anemia, brittle bones, and stiff joints. May cause kidney injury. Chronic exposure may lead to liver and lung damage.

Section 4 - First Aid Measures



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Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: Material will not burn. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Use extinguishing media appropriate to the surrounding fire.

Extinguishing Media: Use water fog, dry chemical, carbon dioxide, or regular foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Do not flush into a sewer. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids.

Section 8 - Exposure Control / Personal Protection



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Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits:

CAS# 7681-49-4:

United Kingdom, WEL - TWA: (fluorides, inorganic): 2.5 mg/m³ TWA (as F) United

Kingdom, WEL - STEL: (fluorides, inorganic): 6.25 mg/m³ STEL (as F)

United States OSHA: 2.5 mg/m³ TWA (as F) (Fluorides).2.5 mg/m³ TWA (as F)

(Fluorides and Hydrogen fluoride).

Belgium - TWA: (fluorides, inorganic): 2.5 mg/m³ VLE (as F)

France - VME: 2 mg/m³ VME (as F)

Germany: (fluorides and hydrogen fluoride): 2.5 mg/m³ VME (as F)

Malaysia: (fluorides and hydrogen fluoride): 2.5 mg/m³ TWA (as F)

Netherlands: (fluorides and hydrogen fluoride): 3.5 mg/m³ STEL (as F)

Russia: 0.2 mg/m³ TWA (aerosol, as F)

Spain: (fluorides, inorganic): 2.5 mg/m³ VLA-ED (except uranium hexafluoride, as F)

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: white

Odor: odorless

pH: Not available

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: 1700 deg C @760mmHg (3,092.00°F)

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature: Not available

Solubility in water: 4g/100ml (25°C)

Specific Gravity/Density:

Molecular Formula: FNa

Molecular Weight: 41.98



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Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials Acids, glass.

Hazardous Decomposition Products Hydrogen fluoride gas.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7681-49-4: WB0350000

LD50/LC50: RTECS:

CAS# 7681-49-4: Draize test, rabbit, eye: 20 mg/24H Moderate;

Oral, mouse: LD50 = 44 mg/kg; Oral, rabbit: LD50 = 200 mg/kg;

Oral, rat: LD50 = 31 mg/kg; Other:

Carcinogenicity: Sodium fluoride - IARC: Group 3 (not classifiable)

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:		SODIUM FLUORIDE	
Hazard Class:	6.1	6.1	6.1
UN Number:	1690	1690	1690
Packing Group:	II	II	II

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.