

# SAFETY DATA SHEET

Creation Date 16-Nov-2010

Revision Date 14-Feb-2020

**Revision Number** 2

1. Identification

**Product Name** 

Sodium fluoride

Cat No. :

A13019

CAS-No Synonyms 7681-49-4 No information available

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

### Label Elements

Signal Word Danger

Hazard Statements

Toxic if swallowed Causes skin irritation Causes serious eye irritation



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Storage Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Contact with acids liberates very toxic gas

# 3. Composition/Information on Ingredients

Component		CAS-No	Weight %	
Sodium fluoride		7681-49-4	>95	
	4. F	irst-aid measures		
General Advice Show this s required.		y data sheet to the doctor in attenda	nce. Immediate medical attention is	
Eye Contact In the case advice.		ontact with eyes, rinse immediately	with plenty of water and seek medical	
Skin Contact Wash off in attention is		diately with plenty of water for at lea uired.	st 15 minutes. Immediate medical	
Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-t method if victim ingested or inhaled the substance; give artificial respiration with th pocket mask equipped with a one-way valve or other proper respiratory medical d Immediate medical attention is required.		give artificial respiration with the aid of a		
Ingestion Do NO		Do NOT induce vomiting. Call a physician or poison control center immediately.		
		ng, or flu-like symptoms	nay include nausea, headache, diarrhea,	

# 5. Fire-fighting measures

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

### **Specific Hazards Arising from the Chemical**

Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

### Hazardous Combustion Products

Gaseous hydrogen fluoride (HF).

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u>	Health 2	Flammability 0	Instability 1	Physical hazards N/A
		6. Accidental rel	ease measures	
Personal Precautions				uipment as required. Avoid dust ak. Evacuate personnel to safe
Environm	ental Precautions	Should not be released into sewer system.	the environment. Do not flus	h into surface water or sanitary

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from acids.

### 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Sodium fluoride	TWA: 2.5 mg/m <sup>3</sup>	(Vacated) TWA: 2.5 mg/m <sup>3</sup>	IDLH: 250 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
			TWA: 2.5 mg/m <sup>3</sup>	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists 0SHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

	5.	۰.	11 y 31
Physical State			
Appearance			
Odor			
Odor Threshold			
рН			
Melting Point/Range			
Boiling Point/Range			
Flash Point			
Evaporation Rate			
Flammability (solid,gas)			
Flammability or explosive limits			
Upper			
Lower			
Vapor Pressure			
Vapor Density			
Specific Gravity			
Solubility			
Partition coefficient; n-octanol/wa	ater		
Autoignition Temperature			
Decomposition Temperature			
Viscosity			
Molecular Formula			
Molecular Weight			

Powder Solid White Odorless No information available 7.4 993 °C / 1819.4 °F 1700 °C / 3092 °F No information available Not applicable No information available

No data available No data available 1 mmHg @ 1077 °C Not applicable 2.78 (H2O=1) 40 g/L (25°C) No data available

No information available Not applicable F Na 41.98

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions. Moisture sensitive.	
Conditions to Avoid	Incompatible products. Exposure to moist air or water.	
Incompatible Materials	Acids	
Hazardous Decomposition Products Gaseous hydrogen fluoride (HF)		
Hazardous Polymerization	Hazardous polymerization does not occur.	

### **Hazardous Reactions**

None under normal processing.

# 11. Toxicological information

### Acute Toxicity

Component Informa	ition					
Component LD		LD50 Oral		D50 Dermal	LC50 I	nhalation
		LD50 = 52 mg/kg (Rat	) > 2	000 mg/kg (Rat)	No	t listed
Foxicologically Syn Products Delayed and immed	•	No information avail well as chronic effec		d long-term expo	osure_	
Irritation		Irritating to eyes and	d skin			
Sensitization		No information avail	able			
Carcinogenicity		The table below ind	icates whether ea	ich agency has lis	ted any ingredient a	as a carcinoger
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium fluoride	7681-49-4	Not listed	Not listed	Not listed	Not listed	Not listed
Iutagenic Effects	S	No information available				
Developmental Effe		No information available.				
<b>Feratogenicity</b>		No information available.				
0						
STOT - single expos STOT - repeated exp		None known None known				
STOT - single expos STOT - repeated exp						
STOT - single expos	oosure	None known No information avail	able	a, headache, diar	rhea, cramps, vomi	ting, or flu-like
STOT - single exposion STOT - repeated exp Aspiration hazard Symptoms / effects	oosure ,both acute and	None known No information avail Other side effects m	able nay include nause	a, headache, diar	rhea, cramps, vomi	ting, or flu-like

# 12. Ecological information

### **Ecotoxicity**

Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium fluoride	EC50: = 850 mg/L, 72h	Lepomis macrochirus:	-	338 mg/L EC50 = 48 h
	static (Desmodesmus	530 mg/L LC50 96 h (static)		98 mg/L EC50 = 48 h (statio
	subspicatus)	830 mg/L LC50 96 h		
	EC50: = 272 mg/L, 96h	(semi-static)		
	(Pseudokirchneriella	Pimephales promelas:		
	subcapitata)	180 mg/L LC50 96 h		
		Oncorhynchus mykiss:		
		38 - 68 mg/L LC50 96 h		

**Persistence and Degradability** Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation** / Accumulation No information available.

### Mobility

Will likely be mobile in the environment due to its water solubility.

## 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT	
UN-No	UN1690
Proper Shipping Name	SODIUM FLUORIDE, SOLID
Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN1690
Proper Shipping Name	SODIUM FLUORIDE, SOLID
Hazard Class	6.1
Packing Group	III
IATA	
UN-No	UN1690
Proper Shipping Name	SODIUM FLUORIDE, SOLID
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN1690
Proper Shipping Name	SODIUM FLUORIDE, SOLID
Hazard Class	6.1
Packing Group	III
	15. Regulatory information

### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Sodium fluoride	7681-49-4	Х	ACTIVE	-

### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Sodium fluoride	7681-49-4	Х	-	231-667-8	Х	Х	Х	Х	KE-31540

#### U.S. Federal Regulations

SARA 313 Not applicable

### SARA 311/312 Hazard Categories See section 2 for more information

#### **CWA (Clean Water Act)**

		Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
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### Sodium fluoride

Sodium fluoride	Х	1000 lb	-	-

Clean Air Act	Not applicable

**OSHA** - Occupational Safety and Not applicable Health Administration

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Sodium fluoride	1000 lb	-	
California Proposition 65 This product	Proposition 65 This product does not contain any Proposition 65 chemicals.		

#### U.S. State Right-to-Know Regulations

Regulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium fluoride	Х	Х	Х	Х	Х

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date Revision Date Print Date Revision Summary	16-Nov-2010 14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 7681-49-4/1.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**