

# SAFETY DATA SHEET

# spectrum®



Revision date 17-May-2022

Revision Number 2

## 1. Identification

### Product identifier

**Product Name** SODIUM FLUORIDE, POWDER, REAGENT, ACS

### Other means of identification

**Product Code(s)** S1280

**UN/ID no** UN1690

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended use** No information available

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

Spectrum Chemical Mfg. Corp.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

### Emergency telephone number

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 2

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

**Danger**

### Hazard statements

Toxic if swallowed  
Fatal in contact with skin

Causes skin irritation  
Causes serious eye irritation  
Suspected of damaging fertility or the unborn child



**Appearance** Crystalline powder or powder

**Physical state** Solid

**Odor** No information available

#### **Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not get in eyes, on skin, or on clothing  
Wear eye/face protection

#### **Precautionary Statements - Response**

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  
Immediately call a POISON CENTER or doctor/physician  
IF ON SKIN: Gently wash with plenty of soap and water  
Remove/Take off immediately all contaminated clothing  
Wash contaminated clothing before reuse  
If skin irritation occurs: Get medical advice/attention  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other information**

No information available.

### **3. Composition/information on ingredients**

#### **Substance**

Chemical name	CAS No	Weight-%	Trade secret
Sodium Fluoride	7681-49-4	100	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### **4. First-aid measures**

#### **Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. Fire-fighting measures**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** No information available.

**Explosion data**

**Sensitivity to mechanical impact** none.

**Sensitivity to static discharge** none.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**7. Handling and storage**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Fluoride 7681-49-4	No data available	2.5 mg/m <sup>3</sup> TWA F	-

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

**Physical state** Solid  
**Appearance** Crystalline powder or powder  
**Color** White  
**Odor** No information available  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	no data available	None known
Melting point / freezing point	993	None known
Boiling point / boiling range	no data available	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	no data available	None known
Relative density	2.8	None known
Water solubility	Slightly soluble in water	None known
Solubility(ies)	Insoluble in Alcohol	None known
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known

Dynamic viscosity No data available None known

**Other information**

Explosive properties No information available  
Oxidizing properties No information available  
Softening point No information available  
Molecular weight No information available  
VOC Content (%) No information available  
Liquid Density No information available  
Bulk density No information available

**10. Stability and reactivity**

Reactivity No information available.  
Chemical stability Stable under normal conditions.  
Possibility of hazardous reactions None under normal processing.  
Conditions to avoid None known based on information supplied.  
Incompatible materials None known based on information supplied.  
Hazardous decomposition products None known based on information supplied.

**11. Toxicological information**

Information on likely routes of exposure

Inhalation Specific test data for the substance or mixture is not available.  
Eye contact Specific test data for the substance or mixture is not available.  
Skin contact Specific test data for the substance or mixture is not available.  
Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

**Numerical measures of toxicity**

No information available

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (dermal) 175.00

52 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Fluoride 7681-49-4	= 52 mg/kg ( Rat )	= 175 mg/kg ( Rat )	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.  
Serious eye damage/eye irritation No information available.  
Respiratory or skin sensitization No information available.  
Germ cell mutagenicity No information available.  
Carcinogenicity No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

## 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Fluoride 7681-49-4	EC50: =272mg/L (96h, Pseudokirchneriella subcapitata) EC50: =850mg/L (72h, Desmodosmus subspicatus)	LC50: 38 - 68mg/L (96h, Oncorhynchus mykiss) LC50: =180mg/L (96h, Pimephales promelas) LC50: =830mg/L (96h, Lepomis macrochirus) LC50: >530mg/L (96h, Lepomis macrochirus)	-	EC50: =338mg/L (48h, Daphnia magna) EC50: =98mg/L (48h, Daphnia magna)

**Persistence and degradability** No information available.

**Bioaccumulation** Inherently biodegradable.

**Other adverse effects** No information available.

## 13. Disposal considerations

### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

**DOT** Regulated

**UN/ID no** UN1690

**Proper Shipping Name:** Sodium fluoride, solid

**Hazard class** 6.1

**Packing group:** III

**Special Provisions** IB8, IP3, T1, TP33

**Description:** UN1690, Sodium fluoride, solid, 6.1, III

**Emergency Response Guide Number** 154

**TDG** not regulated

**UN-No:** UN1690

**Proper Shipping Name:** Sodium fluoride, solid

**Hazard class** 6.1

**Packing Group:** III

**Description:** UN1690, Sodium fluoride, solid, 6.1, III

**MEX** not regulated

<b>UN-No</b>	UN1690
<b>Proper Shipping Name</b>	Sodium fluoride, solid
<b>Hazard class</b>	6.1
<b>Packing Group</b>	III
<b>Description</b>	UN1690, Sodium fluoride, solid, 6.1, III
<b>ICAO (air)</b>	
	Forbidden
<b>UN-No:</b>	UN1690
<b>Proper Shipping Name:</b>	Sodium fluoride, solid
<b>Hazard class</b>	6.1
<b>Packing Group:</b>	III
<b>Description:</b>	UN1690, Sodium fluoride, solid, 6.1, III
<b>IATA</b>	
	not regulated
<b>UN number</b>	UN1690
<b>Proper Shipping Name:</b>	Sodium fluoride, solid
<b>Transport hazard class(es)</b>	6.1
<b>Packing group</b>	III
<b>Description:</b>	UN1690, Sodium fluoride, solid, 6.1, III
<b>IMDG</b>	
	Forbidden
<b>UN number</b>	UN1690
<b>Proper shipping name</b>	Sodium fluoride, solid
<b>Transport hazard class(es)</b>	6.1
<b>Packing group</b>	III
<b>EmS-No</b>	F-A, S-A
<b>Marine pollutant</b>	NP1
<b>Description</b>	UN1690, Sodium fluoride, solid, 6.1, III
<b>RID</b>	
	Forbidden
<b>UN number</b>	UN1690
<b>Proper Shipping Name:</b>	Sodium fluoride, solid
<b>Transport hazard class(es)</b>	6.1
<b>Packing group</b>	III
<b>Classification code</b>	T5
<b>Description:</b>	UN1690, Sodium fluoride, solid, 6.1, III
<b>ADR</b>	
	Forbidden
<b>UN number</b>	UN1690
<b>Proper Shipping Name:</b>	Sodium fluoride, solid
<b>Transport hazard class(es)</b>	6.1
<b>Packing group</b>	III
<b>Classification code</b>	T5
<b>Tunnel restriction code</b>	(E)
<b>Description:</b>	UN1690, Sodium fluoride, solid, 6.1, III
<b>Labels</b>	6.1
<b>ADN</b>	
	Not regulated
<b>UN/ID No</b>	UN1690
<b>Proper shipping name</b>	Sodium fluoride, solid
<b>Transport hazard class(es)</b>	6.1
<b>Packing Group</b>	III
<b>Classification code</b>	T5
<b>Special Provisions</b>	802
<b>Description</b>	UN1690, Sodium fluoride, solid, 6.1, III
<b>Hazard label(s)</b>	6.1
<b>Limited quantity (LQ)</b>	5 kg
<b>Equipment Requirements</b>	PP, EP

## 15. Regulatory information

### International Inventories

TSCA Complies

<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	This product complies with ENCS:
<b>IECSC</b>	This product complies with China:
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sodium Fluoride 7681-49-4	1000 lb final RQ 454 kg final RQ	-

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium Fluoride 7681-49-4	sn 1699	Present	Environmental hazard

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable



## 16. Other information

### NFPA

Health hazards 0

Flammability 0

Instability 0

Physical and chemical properties -

### HMIS

Health hazards 0

Flammability 0

Physical hazards 0

Personal protection X

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling

Maximum limit value

### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Revision date** 17-May-2022

**Revision Note** No information available.

### 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 Safety Data Sheet**