

# SAFETY DATA SHEET

## SODIUM FLUORIDE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179  
Emergency Telephone No.: 905-466-3832  
Chemical Name: Sodium fluoride  
Catalog Number: SFL001

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification

#### CLASSIFICATION:

Acute toxicity Oral, Category 3  
Skin irritant Category 2  
Eye irritant Category 2

#### PICTOGRAM:



**SIGNAL WORD:** Danger

#### HAZARD STATEMENTS:

H301-Toxic if swallowed  
H315- Causes skin irritation  
H319- Causes serious eye irritation

#### PRECAUTIONARY STATEMENTS:

P261- Avoid breathing dust/fume/gas/mist/vapors/spray  
P280-wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338- IF IN EYES: rinse cautiously with water for several minutes. remove contact lenses if present and easy to do. Continue rinsing.  
P312-Call a POISON CENTER or doctor/physician if you feel unwell

#### Potential Health Effects:

**Eyes:** Causes irritation and possible burns. May damage cornea..  
**Skin:** Causes irritation and possible burns.  
**Ingestion:** Harmful if swallowed. May cause GI irritation. Large amounts may cause nausea, vomiting. May cause respiratory paralysis and cardiac arrest.  
**Inhalation:** May cause severe respiratory tract irritation which may lead to pulmonary edema..

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Sodium fluoride	7681-49-4	>99%

Molecular Formula: NaF  
Molecular Weight: 41.99

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water . Consult a physician.  
**Skin:** In case of contact, flush area immediately with water. Get medical aid if irritation persists.  
**Inhalation:** Remove victim to fresh air. If breathing becomes difficult, give oxygen. Consult a physician..  
**Ingestion:** Wash mouth with water. Do NOT induce vomiting. Consult a physician if you feel unwell.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammability:** Not flammable  
**Flash Point:** Not available  
**Autoignition Temperature:** not determined  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions:**  
Ventilate the area. Wear appropriate protective equipment. Avoid contact with skin, eyes and clothing.  
**Methods for containment and clean up:**  
If safe to do so, contain further leakage. Sweep and place in a closed container. Avoid sources of ignition and electrostatic charge. Dispose according to local regulations.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.  
**Storage Conditions:** Room temperature. Keep cool and dry.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits:**  
Canada; TWA 2.5 mg/m3  
Use adequate ventilation. Avoid dust generation..  
**Personal protective Equipment:** Wear appropriate safety glasses and protective gloves/clothing. Use approved NIOSH respirator.  
**Engineering Measures:** eye wash stations, ventilation systems, showers  
**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. wash hands before and after handling product.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** white powder  
**Odor:** no information found  
**Odor Threshold:** : no information found  
**Melting Point:** 993C

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**Boiling Point:** no information found  
**Specific Gravity:** no information found  
**Vapor Density:** no information found  
**Vapor pressure:** no information found  
**Water Solubility:** soluble  
**pH:** no information found  
**Flammability:** not flammable  
**Flash point:** no information found  
**Ignition temperature:** no information found  
**Autoignition temperature:** no information found  
**Lower explosion limit:** no information found  
**Upper explosion limit:** no information found

**IATA:**  
UN number: 1690 Class: 6.1 Packing group: III  
Proper shipping name: SODIUM FLUORIDE, SOLID

### SECTION 15 REGULATORY INFORMATION

**Canada:** WHMIS D1A

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz  
Date Prepared: Jan 1/2025  
Phone: (800) 234-1179

The information provided on this Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.  
Observe all federal, provincial and state laws concerning health, safety and pollution.

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure  
**Conditions to avoid:** dust generation  
**Incompatibility** strong acids produce toxic gases.  
**Hazardous Decomposition Products:** toxic fluoride gas.  
**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

Oral rat: LD50= 148mg/kg  
Oral mouse: LD50= 44mg/kg  
Oral rabbit: LD50= 200mg/kg

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** some studies on animals show reproductive abnormalities  
**Neurotoxicity:** No data available  
**Mutagenicity:** No data available  
**Carcinogenicity:** not listed by ACGIH, IARC, NTP, or CA

### SECTION 12 ECOLOGICAL INFORMATION

**Ecotoxicity:**  
Fish: Onocorhynchus mykiss (rainbow trout): LC50: 2006mg/l-96h

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Care should be exercised when burning in chemical incinerator as this substance produces toxic hydrogen fluoride.. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### Shipping Information:

**DOT (US):**  
UN number: 1690 Class: 6.1 Packing group: III  
Proper shipping name: SODIUM FLUORIDE, SOLID

**IMDG:**  
UN number: 1690 Class: 6.1 Packing group: III  
Proper shipping name: SODIUM FLUORIDE, SOLID