



## Material Safety Data Sheet

### Fluoride Standards, 0.5 ppm – 1000 ppm

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Fluoride Standards, 0.5 ppm – 1000 ppm

**Catalog Numbers:**

LC14555, LC14560, LC14565, LC14570, LC14580, LC14600

**Synonyms:**

None

**Company Identification:**

LabChem Inc  
 200 William Pitt Way  
 Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

#### Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7681-49-4	Sodium fluoride	<0.25

#### Section 3 - Hazards Identification

##### Emergency Overview

**Appearance:** *Clear, colorless solution***Caution!** *May cause irritation to eyes, skin, respiratory and gastrointestinal tracts. This substance has caused adverse reproductive and fetal effects in animals.***Target Organs:** *Skeletal structures***Potential Health Effects****Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation.

**Ingestion:**

Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

**Inhalation:**

May cause respiratory tract irritation.

**Chronic:**

Chronic inhalation and ingestion may cause fluorosis with skeletal abnormalities. Chronic inhalation



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may cause lung damage. Prolonged or repeated exposure may cause adverse reproductive effects. May cause fetal effects. May cause mutagenic effects. May cause tumors.

#### Section 4 - First Aid Measures

**Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:**

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

**Ingestion:**

Do NOT induce vomiting. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:**

Move victim to fresh air immediately. Get medical aid if cough or other symptoms appear.

**Notes to Physician:**

Treat symptomatically and supportively.

#### Section 5 - Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

**Autoignition Temperature:**

No information found.

**Flash Point:**

No information found.

**NFPA Rating:**

Health- 1, Flammability- 0, Instability- 0

**Explosion Limits:**

Lower: n/a Upper: n/a

#### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spills with inert material (vermiculite, sand, fuller's earth) and place in suitable containers labeled for disposal.



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### Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:**

Store tightly closed in a cool, well-ventilated area.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation.

**Exposure Limits:**

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list	None of the components are on this list	None of the components are on this list
Sodium fluoride	2.5 mg/m <sup>3</sup> TWA	None of the components are on this list	None of the components are on this list

**OSHA Vacated PELs:**

None

**Personal Protective Equipment****Eyes:**

Do not wear contact lenses when working with chemicals. Wear appropriate protective eyewear or chemical safety goggles as described in 29 CFR 1910.133.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

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

### Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Clear liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>pH:</b>	Neutral
<b>Vapor Pressure:</b>	14 mm Hg @20C
<b>Vapor Density:</b>	0.7 (water)
<b>Evaporation Rate:</b>	No information found.
<b>Viscosity:</b>	No information found.
<b>Boiling Point:</b>	212°F (100°C)
<b>Freezing/Melting Point:</b>	32°F (0°C)
<b>Decomposition Temperature:</b>	No information found.



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**Solubility in water:** Soluble.  
**Specific Gravity/Density:** 1.0  
**Molecular Formula:** No information found.  
**Molecular Weight:** No information found.

### Section 10 - Stability and Reactivity

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, excess heat.

**Incompatibilities with Other Materials:**

Acids, glass, metals.

**Hazardous Decomposition Products:**

Hydrogen fluoride gas.

**Hazardous Polymerization:**

Has not been reported.

### Section 11 - Toxicological Information

**RTECS:**

CAS# 7732-18-5: ZC0110000.

CAS# 7681-49-4: WB0350000.

**LD50/LC50:**

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7681-49-4:

Oral, mouse: LD50 = 57 mg/kg

Oral, rabbit: LD50 = 200 mg/kg

Oral, rat: LD50 = 52 mg/kg.

**Carcinogenicity:**

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7681-49-4: Listed as Class 3 by NTP.

**Epidemiology:**

No information found

**Teratogenicity:**

Sodium fluoride has been shown to cause teratogenic effects in animal studies

**Reproductive:**

Sodium fluoride has been shown to cause reproductive effects and fetotoxicity in animal studies.

**Mutagenicity:**

Mutagenic for mammalian somatic cells, bacteria, and yeast.

**Neurotoxicity:**

No information found



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**Section 12 - Ecological Information**

No information found

**Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

**Section 14 - Transport Information**

**US DOT**

**Shipping Name:** Not regulated.

**Hazard Class:**

**UN Number:**

**Packing Group:**

**Section 15 - Regulatory Information**

**US Federal**

**TSCA:**

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7681-49-4 is listed on the TSCA Inventory.

**SARA Reportable Quantities (RQ):**

CAS# 7681-49-4: final RQ = 1000 pounds (454 kg)

**CERCLA/SARA Section 313:**

None of the components are on this list.

**OSHA - Highly Hazardous:**

None of the components are on this list.

**US State**

**State Right to Know:**

Sodium fluoride can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Massachusetts.

**California Regulations:**

None

**European/International Regulations**

**Canadian DSL/NDSL:**

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7681-49-4 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List:**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7681-49-4 is listed on Canada's Ingredient Disclosure List.



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**Section 16 - Other Information**

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