

# MSDS

FLUORIDE STANDARDS, PREMIXED WITH TISAB BUFFER

## Material Safety Data Sheet

### Section 1: Chemical Product and Company Identification

<b>Catalog Number:</b> 3161.4, 3161.5, 3163.3, F-199, F-260, R3161210, R3161300, R3161800, R3163020, R3163800, R3164200, R3165020, R3165050, R3165100, R3165150, R3165200, R3165300, SF039021	
<b>Product Identity:</b> FLUORIDE STANDARDS, PREMIXED WITH TISAB BUFFER	
<b>Manufacturer's Name:</b> RICCA CHEMICAL COMPANY LLC	<b>Emergency Contact(24 hr) -- CHEMTREC®</b> Domestic: 800-424-9300 International: 703-527-3887
<b>CAGE Code:</b> 4TCW6, 0V553, 4XZQ2	
<b>Address:</b> 448 West Fork Dr Arlington, TX 76012	<b>Telephone Number For Information:</b> 817-461-5601
<b>Date Prepared:</b> 9/20/04	<b>Revision: 7</b> Last Revised: 09/21/2009 Date Printed: 05/20/2010 5:17:13 pm

### Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Sodium Hydroxide	1310-73-2	<3	Not Available C 2 mg/m3	Not Available 2 mg/m3
1,2-Cyclohexylenediaminetetraacetic Acid (CDTA)	13291-61-7	<1	Not Available Not Available	Not Available Not Available
Acetic Acid	64-19-7	<3	10 ppm 25 mg/m3	10 ppm 25 mg/m3
Sodium Chloride	7647-14-5	<3	Not Available Not Available	Not Available Not Available
Sodium Fluoride	7681-49-4	< 0.2	Not Available 2.5 mg/m3	Not Available 2.5 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available

### Section 3: Hazard Identification

**Emergency Overview:** This product may cause irritation to areas of contact. Handle with care. Wash areas of contact with water immediately.

**Target Organs:** eyes, skin, respiratory system, teeth.

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**Eye Contact:** May cause irritation, redness, pain, and tearing.

**Inhalation:** May cause irritation.

**Skin Contact:** May cause irritation, redness, and pain.

**Ingestion:** Large doses may produce abdominal pain, nausea, and vomiting.

**Chronic Effects/Carcinogenicity:** None

**IARC** - Sodium Fluoride is unclassifiable as to carcinogenicity to humans. Sodium Fluoride is unclassifiable as to carcinogenicity to humans.

**NTP** - No.

**OSHA** - No.

**Reproductive Information:** Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Chloride. Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Fluoride. Reproductive effects cited in 'Registry of Toxic Effects of Chemical

**Teratology (Birth Defect) Information:** Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Chloride. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Fluoride. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances'

### Section 4: First Aid Measures - In all cases, seek qualified evaluation.

**Eye Contact:** Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Skin Contact:** Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

**Ingestion:** Dilute with water or milk. Call a physician if necessary.

### Section 5: Fire Fighting Measures

**Flash Point:** Not Available.

**Method Used:** Not Available.

**LFL:** Not Available.

**UFL:** Not Available.

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.

**Fire Fighting Instructions:** Use normal procedures/instructions.

**Fire Fighting Equipment:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

### Section 6: Accidental Release Measures

Absorb with suitable material (vermiculite, clay, paper towels, etc.). Treat the solid residue as normal refuse. Liquid may be flushed to the sewer with plenty of water.

### Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

**Safety Storage Code:** General

### Section 8: Exposure Control/Personal Protection

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

### Section 9: Physical and Chemical Properties

**Appearance:** Clear, colorless liquid

**Odor:** slight acetic acid odor

**Solubility in Water:** Infinite

**Specific Gravity:** Approximately 1

**pH:** 5.3 - 5.5

**Boiling Point(°C):** Approximately 100

**Melting Point(°C):** Approximately 0

**Vapor Pressure:** Not Applicable.

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**Section 10: Stability and Reactivity**

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatibility:** oxidizing agents.

**Hazardous Decomposition Products:** When heated to decomposition, emits irritating fumes.

**Hazardous Polymerization:** Will not occur.

**Section 11. Toxicological Information**

LD50, Oral, Rat: 3000 mg/kg (Sodium Chloride) No toxic effects noted; 52 mg/kg (Sodium Fluoride) Details of toxic effects not reported other than lethal dose value; 3310 mg/kg (Acetic Acid).

**Section 12. Ecological Information**

**Ecotoxicological Information:** No information found.

**Chemical Fate Information:** No information found.

**Section 13. Disposal Considerations**

Dilute with water and flush down the drain with plenty of water if allowed by local regulations. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always comply with local, state and federal regulations.

**Section 14. Transport Information**

Part Numbers:

This product is not regulated.

**Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)**

**OSHA Status:**The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

**TSCA Status:**All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

**Section 302 Extremely Hazardous Substances:**Not Applicable.

**Section 311/312 Hazardous Categories:**No

**Section 313 Toxic Chemicals:**Not Applicable.

**California:** None Reported.

**Pennsylvania:** Sodium Fluoride is listed as an Environmental Hazard on the state's Hazardous Substances List. Sodium Hydroxide is listed as an Environmental Hazard on the state's Hazardous Substances List. Acetic Acid is listed as an Environmental Hazard on the state's Hazardous Substances List. Acetic Acid is listed as an Environmental Hazard on the state's Hazardous Substances List. Sodium Fluoride is listed as an Environmental Hazard on the state's Hazardous Substances List. Sodium Hydroxide is listed as an Environmental Hazard on the state's Hazardous Substances List.

**RCRA Status:** D002,D002

**CERCLA Reportable Quantity:** Sodium Fluoride - 1,000 pounds. Sodium Hydroxide - 1,000 pounds. Acetic Acid - 5,000 pounds. Acetic Acid - 5,000 pounds. Sodium Fluoride - 1,000 pounds. Sodium Hydroxide - 1,000 pounds.

**WHMIS:** Not Applicable.

**Section 16. Other Information**



For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands  
Emergency Contact(24 hr) -- CHEMTREC®  
Domestic: 800-424-9300  
International: 703-527-3887

## MSDS

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### NFPA Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Special Notice Key:None

### HMIS Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 01-25-2005: (Section 1) added catalog number R3165050 and SpectroPure catalog number SF039021.

Rev 2, 02-07-2005: (Section 1) added catalog number 3161.5.

Rev 3, 08-04-2006: (Section 1) added catalog numbers R3163800, R3165020 and R3165150.

Rev 4, 11-06-2006: (Section 1) added catalog numbers R3161300, R3163020 and R3164200.

Rev 5, 03-16-2007: (Section 1) added Red Bird catalog numbers F-199 and F-260.

Rev 6, 03-31-2009: (Section 1) added catalog numbers 3161.4 and 3163.3.

Rev 7, 09-21-2009: (Section 1) added catalog numbers R3161210 and R3161800.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.