



## SAFETY DATA SHEET

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### SECTION 1 – PRODUCT IDENTIFICATION

**Trade Name:** Fluoride Standard Solutions with TISAB II, 1.0ppm – 500ppm

**ECD Part #s** 2010400, 2010401, 2010409, 2010410, 2010418, 2010419, 2010427, 2010440, 2010434, 2010417, 2010431, 2010433

**Manufacture By:** Electro-Chemical Devices, Inc  
1681 Kettering  
Irvine, CA 92614  
Phone #: 1-800-729-1333

**NFPA RATINGS:** HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

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### SECTION 2 – HAZARDS IDENTIFICATION

**Risk and Safety Codes:** R21/22 Harmful in contact with skin and if swallowed  
R36/38 Irritating to eyes and skin  
TARGET ORGANS: Liver, kidneys, skin

**Toxicology:** LD50 mg/kg  
31 (ORL-RAT)  
3,310 (ORL-RAT)  
3,000 (ORL-RAT)  
3,530 (ORL-RAT)  
150 (IPR-MUS)  
190,000 (IPR-MUS)

**ACUTE TOXICITY:** Ingestion may cause nausea, breathing difficulties, and damage to stomach and digestive tract.  
Low hazard for skin and inhalation

**CHRONIC TOXICITY:** Irritation of skin

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Respiratory ailments, people with sensitive skin may be affected.



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## SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

<b>COMPONENT:</b>	<b>CAS Number:</b>	Sodium Fluoride (NaF) 7681-49-4 <0.5 Acetic Acid (C <sub>2</sub> H <sub>4</sub> O <sub>2</sub> ) 64-19-7 <1 Sodium Chloride (NaCl) 7647-14-5 3 Sodium Acetate (C <sub>2</sub> H <sub>3</sub> NaO <sub>2</sub> ) 127-09-03 4 CDTA 13291-61-7 <1 Deionized Water 7732-18-5 >91
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GHS / CLP

H303: May be harmful if swallowed

H313: May be harmful in contact with skin

H319 – Causes serious eye irritation

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## SECTION 4 – FIRST AID MEASURES

**EYE AND SKIN CONTACT:** Wash off with large amounts of water.

**INGESTION:** Dilute with large amounts of water. Do not induce vomiting. Get medical attention.

**INHALATION:** Not hazardous

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## SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: NA

AUTOIGNITION POINT: NA

FLAMMABILITY LIMITS: UPPER: NA LOWER: NA

EXTINGUISHING MEDIA: Dry chemical, foam or CO<sub>2</sub>

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## SECTION 6 -ACCIDENTAL RELEASE MEASURES

Vacuum up and set aside for waste disposal.

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## SECTION 7 -HANDLING AND STORAGE

Always wear eye protection and gloves when working with this product.

Avoid contact with eyes, skin or clothing.

Keep away from heat and keep container closed.



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## SECTION 8 -EXPOSURE CONTROLS/ PERSONAL PROTECTION

OSHA & ACGIH THRESHOLD LIMIT: NaF-2.5 mg/m<sup>3</sup>; C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>-2.5mg/m<sup>3</sup>.

PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

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## SECTION 9 -PHYSICAL AND CHEMICAL PROPERTIES

STATE: Clear liquid

ODOR THRESHOLD: Vinegar-like

SENSITIVITY TO MECHANICAL IMPACT: None

SENSITIVITY TO STATIC DISCHARGE: None

COEFFICIENT OF OIL/WATER DISTRIBUTION: None

SOLUBILITY IN WATER: Soluble pH: 3.8

SPECIFIC GRAVITY: 1.02

BOILING POINT: 100°C

MELTING POINT: Not determined

VAPOR DENSITY: Not determined

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## SECTION 10 -STABILITY AND REACTIVITY

Product is stable. Hazardous polymerization will not occur.

Incompatibles: Strong oxidizers (HNO<sub>3</sub>, Chromic Acid, Sodium Peroxide), contact with strong Caustics can cause spattering.

Hazardous decomposition product: Toxic gases such as carbon monoxide may be released during fire.

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## SECTION 11 -TOXICOLOGICAL INFORMATION

Route of Exposure: May irritate skin.

Teratogen Status: None

Mutagen Status: None

Reproductive Toxicity: None

Carcinogen Status: None



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**SECTION 12 -ECOLOGICAL INFORMATION**

None available

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**SECTION 13 -DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with Federal, State and Local Regulations.

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**SECTION 14 -TRANSPORT INFORMATION**

Product is not hazardous for transport.

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**SECTION 15 -REGULATORY INFORMATION**

**EUROPEAN INFORMATION**

HAZARD SYMBOL: None.

**RISK PHRASES:**

R21/22 Harmful in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

**SAFETY PHRASE:**

H303: May be harmful if swallowed

H313: May be harmful in contact with skin

H319 – Causes serious eye irritation

**US/ CANADA INFORMATION**

SARA/Title III: Acetic acid and sodium fluoride are regulated under section 304.

Cal. Proposition 65: Ingredients not listed.

US TSCA Inventory: Ingredients are listed.

CPR Class: None.

TDG Class: None

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**SECTION 16-OTHER INFORMATION**

Revised Sept. 5, 2013, Risk phrases added, Safety Phrases added

Revised Mar. 3, 2015 Added 2010433, Converted to SDS

Written April 28, 2011