

# MATERIAL SAFETY DATA SHEET

## Part#F00IS01

### SECTION I: GENERAL INFORMATION

**PRODUCT NAME:** Fluoride ISA, TISAB I  
**MANUFACTURE'S NAME:** pHoenix Electrode Company Houston, TX 77081  
**DISTRIBUTED BY:** pHoenix Electrode Company  
**ADDRESS:** 6103 Glenmont Houston, Texas 77081  
**PHONE:** 713/772-6666 **FAX:** 713/772-4671  
**CHEMICAL NAME:** Acetic Acid/Sodium Acetate/Sodium Chloride/Trans-1,2-Diamino Cyclohexane Tetraacetic Acid in Water  
**CHEMICAL FAMILY:** salt solution  
**DOT SHIPPING INFO:** Testing per NACE (TM-01-69) has shown this product to be non-corrosive.  
**IATA SHIPPING INFO:** Testing per NACE (TM-01-69) has shown this product to be non-corrosive.

### SECTION II: INGREDIENTS

CAS NO.	%	CHEMICAL NAME(S)	LD50(mg/kg) oral-rat	OSHA/PEL ACGIH TLV
64-19-7	1.4%	Acetic Acid	1200	25 mg/m <sup>3</sup>
127-09-3	8.2%	Sodium Acetate	1300	none
7647-14-5	5.8%	Sodium Chloride	8000	none
25637-70-1	0.4%	Trans-1,2-Diamino Cyclohexane Tetra- acetic Acid (CDTA)	150	none
7732-18-5	84.2%	Water	-	none

### SECTION III: PHYSICAL DATA

**BOILING POINT:** 100°C **SPECIFIC GRAVITY:** 1.07  
**VAPOR PRESSURE:** N/A **FREEZING POINT:** -6°C  
**VAPOR DENSITY:** N/A **pH:** 5-5.5  
**WATER SOLUBILITY:** Soluble  
**APPEARANCE & ODOR:** Colorless liquid, vinegar like odor

## **SECTION IV: FIRE & EXPLOSION HAZARD DATA**

**FLASHPOINT:** Not flammable

**AUTOIGNITION TEMPERATURE:** N/A

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, alcohol foam or mist

**SPECIAL FIRE FIGHTING PROCEDURES:** Use self contained breathing apparatus.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** N/A

## **SECTION V: HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE:** Irritation of respiratory tract, upset stomach or nausea, irritation of eyes, nose, and throat.

**EMERGENCY & FIRST AID:** Wash off contact area with water.

**EYES & SKIN:** Irrigate with plenty of water.

**INGESTION/INHALATION:** Dilute with large amounts of water. Do not induce vomiting. Consult physician.

## **SECTION VI: REACTIVITY DATA**

**STABLE:** yes

**CONDITIONS TO AVOID:** Heat or flame

**INCOMPATIBILITY:** Strong oxidizers (HNO<sub>3</sub>, Chromic Acid, Sodium Peroxide). Contact with strong caustics can cause spattering.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Toxic gases such as carbon monoxide may be released during a fire.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## **SECTION VII: SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN:** Vacuum up and set aside for waste disposal.

**WASTE DISPOSAL METHOD:** Dilute neutralized solution down drain with excess water. Observe all federal, state, and local laws when disposing of this solution.

## **SECTION VIII: SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** N/A

**VENTILATION:** Yes

**PROTECTIVE GLOVES:** Any

**EYE PROTECTION:** Safety goggles

**OTHER PROTECTIVE EQUIPMENT:**

## **SECTION IX: SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:** Keep away from oxidizers and caustics. Keep well sealed and store at room temperature. Acetic acid is a CERCLA hazard and is subject to Section 304 of SARA Title III.

**OTHER PRECAUTIONS:** Always wash hands thoroughly with soap and water after working with this material. NFPA Rating (0-4): Health-1, Fire-1, Reactivity-0, Specific-none.

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