

MATERIAL SAFETY DATA SHEET

Part # F00IS01

Section I: General Information

Product Name: Fluoride ISA, TISAB I
Manufacturer's Name: Van London pHoenix Company
Distributed By: Van London pHoenix Company
Address: 6103 Glenmont Dr. Houston, Texas 77081
Phone: 713/772-6641 Fax: 713/772-4671

Chemical Name: Acetic acid/Sodium acetate/Sodium chloride/Trans-1,2-Diamino cyclohexane tetra acetic 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	LD50 (mg/kg) oral-rat	OSHA/PEL ACGIH TLV
64-19-7	1.4%	Acetic acid	1200	25 mg/m ³
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
Auto ignition Temperature:	N/A
Extinguishing Media:	CO ₂ , 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 large amounts 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 ₃ , 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.

Section VIII: Special Protection Information

Respiratory Protection:	N/A
Ventilation:	Yes
Protective Gloves:	Any
Eye Protection:	Safety goggles
Other Protective Equipment:	N/A

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-0.

Issue Date: May 2, 2007

Name: Peter F. Boyle, Quality Control Manager

Signature:

A handwritten signature in cursive script that reads "Peter Boyle". The signature is written in black ink and is positioned below the printed name.