

**MATERIAL SAFETY DATA SHEET**

MSDS-0188
ISE-8790-R1
REV. DATE: 8/10/93

SECTION 1 - IDENTIFICATION

PRODUCT (TRADE) NAME: Ionic Strength Adjustor (Fluoride, TISAB-1)

CHEMICAL FAMILY: Salt Solution

SUPPLIER: OMEGA ENGINEERING INC.
PO BOX 4047
STAMFORD, CT 06907

DATE PREPARED: 7/29/93
SUPERSEDES:

TELEPHONE: (203) 359-1660

SHIPPING NAME (UN NUMBER PER TRANSPORTATION AUTHORITY):
DOT/IATA: Testing per NACE (TM-01-69) has shown this product to be non-corrosive.

SECTION 2 - 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 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	150	none
		Tetra-acetic Acid (CDTA)		
7732-18-5	84.2%	Water	—	none

SECTION 3 - PHYSICAL DATA

Boiling Point: 100°C
Vapor Pressure: N/A
Vapor Density: N/A
Water Solubility: Soluble
Appearance & Odor: Colorless liquid, vinegar like odor

Specific Gravity: 1.07
Freezing Point: -6°C
pH: 5 – 5.5

SECTION 4 - 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 5 - 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.



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SECTION 5 - HEALTH HAZARD DATA (CONT'D)

Eyes & Skin: Irrigate with plenty of water.

Ingestion/Inhalation: Dilute with large amounts of water. Do not induce vomiting. Consult physician.

SECTION 6 - REACTIVITY DATA

Stable: Yes

Conditions to Avoid: Strong oxidizers (HNO₃, 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 7 - 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 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: N/A

Ventilation: Yes

Protective Gloves: Any

Eye Protection: Safety goggles

Other Protective Equipment: —

SECTION 9 - 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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