

OFI TESTING EQUIPMENT, INC.
MATERIAL SAFETY DATA SHEET

Effective Date:02/25/02

SECTION I - PRODUCT IDENTIFICATION	
Chemical Name:	EDTA TITRANT SOLUTION
Trade Name:	VERSENATE HARDNESS TITRATING SOLUTION, 1 ml=40 mg/L & 1mL=400 mg/L Ca ² & Mg ²
OFI Part No.	205-15,205-06,205-00,205-16,205-00-1,205-08,205-10,205-12,205-17,205-08-1,205-08-5
Chemical Family:	Ethylenediaminetetracetic Acid, Disodium Salt
Formula:	C ₁₀ H ₁₄ O ₈ N ₂ Na ₂ · H ₂ O
SECTION II - HAZARDOUS CONSTITUENTS	
CAS #:	CHEMICAL NAME
139-33-3	EDTA Disodium Salt 0.37 to 3.0%
SECTION III - PHYSICAL PROPERTIES	
Appearance / Odor:	Clear Colorless Liquid / Odorless
Solubility:	Soluble in Water
Specific Gravity:	1.0
pH:	No Information Found
% Volatiles by Vol.:	No Information Found
Melting Point:	32 ° F (0 °C)
Boiling Point:	212 ° F (100 °C)
Vapor Density (Air=1):	No Information Found
Vapor Pressure (mmHg):	Essentially the Same as Water
SECTION IV - FIRE, EXPLOSION AND REACTIVITY	
Fire:	Not Considered to be a Fire Hazard.
Explosion:	Not Considered to be an Explosion Hazard.
Fire Extinguishing Media:	Use any Means Suitable for Extinguishing Surrounding Fire.
Special Information:	In the Event of Fire, Wear Full Protective Clothing and NIOSH-Approved Self-Contained Breathing Apparatus with Full Facepiece Operated in the Pressure Demand or Other Positive Pressure Mode.
General Reactivity:	Stable Under Ordinary Conditions of Use and Storage.
Hazardous Decomposition:	Burning may Produce Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides.
Incompatibilities:	No Incompatibility Data Found.
Hazardous Polymerization:	Will Not Occur.
SECTION V - HEALTH HAZARD INFORMATION	
Inhalation:	No Adverse Health Effects Expected from Inhalation.
Ingestion:	Substance has Low Toxicity by Ingestion. Large Amounts May Cause Gastrointestinal Upset due to Osmotic Imbalance Caused by its ability to Sequester Metal Ions.
Skin:	May Cause Irritation with Redness and Pain.
Eye Contact:	May Cause Irritation, Redness and Pain.
Chronic Exposure:	No Information Found.

SECTION V - HEALTH, HAZARD INFORMATION (cont.)	
Carcinogenic References:	NTP Carcinogen - Known: No, IARC Category- None
Aggravated by Exposure:	No Information Found.
SECTION VI - EMERGENCY & FIRST AID PROCEDURES	
Inhalation:	Not Expected to Require First Aid Measures
Ingestion:	If Large Amounts were Swallowed, Give Water to Drink and Get Medical Advice.
Skin:	Wash Exposed area with Soap and Water. Get Medical Advice if Irritation Develops.
Eyes:	In case of Contact, Immediately Flush Eyes with Plenty of Water for at Least 15 Minutes, Lifting Upper and Lower Eyelids Occasionally. Call a Physician if Irritation Persists.
SECTION VII - INDUSTRIAL HYGIENE MEASURES	
Ventilation System:	Not Expected to Require any Special Ventilation.
Airborne Exposure Limits:	None Established.
Personal Respirators: (NIOSH APPROVED)	Not Expected to Require Personal Respirator Usage.
Skin Protection:	Wear Protective Gloves and Clean Body-Covering Clothing.
Eye Protection:	Use Chemical Safety Glasses. Maintain Eye Wash Fountain and Quick-Drench Facilities in Work Area.
SECTION VIII - INDUSTRIAL HYGIENE MEASURES	
Accidental Release:	Ventilate Area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 7. Contain and Recover Liquid when Possible. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer.
Disposal:	
Environmental Fate:	No Information Found.
SECTION IX - SPECIAL PRECAUTIONS	
Handling and Storage:	Keep in a Tightly Closed Container, Stored in a Cool, Dry, Ventilated Area. Protect against Physical Damage. Protect from Freezing. Containers of this Material May be Hazardous when Empty Since they Retain Product Residues (Vapors, Liquid). Observe all Warnings and Precautions listed for the Product.
SECTION X - DOT SHIPPING REQUIREMENTS	
Shipping Name:	
Hazard Class:	NOT REGULATED
Identification No.:	NOT REGULATED
NFPA Rating:	HEALTH-1, FLAMMABILITY-0, REACTIVITY-0
SECTION XI - IN CASE OF EMERGENCY	
(713) 880 - 9884	OFI TESTING EQUIPMENT, INC. - Regular Business Hours
(713) 880 - 9885	OFI TESTING EQUIPMENT, INC. - After Regular Business Hours

