

MATERIAL SAFETY DATA SHEET

Versenate Hardness Titrating Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Versenate Hardness Titrating Solution

Product Code: 205-16

Material Uses:

Manufacturer: OFI Testing Equipment, Inc.
11302 Steeplecrest Drive
Houston, TX 77065 USA
Phone: (713) 880-9885
Fax: (713) 880-9886

Entry Date : 5/6/2010

Print Date: 7/30/2010

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	1			
Flammability:	0			
Reactivity:	0			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable		NE = Not Established		

SECTION 2 HAZARD IDENTIFICATION

Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

Emergency Overview:Poison! Danger! Corrosive. May be fatal if swallowed. Harmful if inhaled. Causes burns to any area of contact. Reacts with water, acids and other materials.

Inhalation:Severe irritant. Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur

Ingestion:Corrosive! Symptoms may include severe burns of mouth, throat, and stomach. Severe Scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appear days after exposure.

Skin:Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

Eye Contact:Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that

Chronic Exposure:May result in permanent impairment of vision, even blindness.

Aggravated by Exposure:Prolonged contact with dilute solutions or dust has a destructive effect upon tissue.

Persons with pre-existing skin disorders or eye disease may be more susceptible to the Effects of this substance.

SECTION 3 MIXTURE COMPONENTS

Versenate Hardness Titrating Solution

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Ethylenedinitrilotetra- acetic Acid,Disodium Salt	CAS# 6381-92-6	0.37%	W/V	None established
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

Emergency Overview:Caution! May Cause Irritation to Skin and Eyes.

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.

Aggravated by Exposure:No Information Found.

SECTION 4 FIRST AID MEASURES

Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of water. Vomiting may occur, but it is not necessary to induce.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: None

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Ventilate Area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. 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.

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SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. This Material is not considered hazardous. Handle using safe laboratory practices.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation
 Local Exhaust
 Mechanical

Protective Gloves: Gloves to prevent exposure

Eye Protection: Safety Glasses w/Side Shields

Other Protective Equipment: Use safe laboratory handling procedures.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	< 5 °C	Percent Volatile by Volume:	> 99
Boiling Point:	> 95 °C	Evaporation Rate	Information not available
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Clear, colorless, odorless liquid	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Not applicable		
Specific Gravity:	~ 1		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: None known

Materials to Avoid: None known

Hazardous Decomposition Products: Carbon monoxide, nitrogen oxides, ammonia

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

SECTION 11 Toxicological Information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

SECTION 12 Ecological Information

No Information Found.

SECTION 13 Disposal Considerations

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Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 Transport Information

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Chemical Inventory Status –
Part 1:Ingredient
EDTA Disodium Salt (139-33-3)
TSCA Yes
EC Yes
Japan Yes
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
EDTA Disodium Salt (139-33-3)
Korea Yes
DSL Yes
NDSL No
Phil. Yes

Federal, State & International Regulations –
Part 1: Ingredient.
EDTA Disodium Salt (139-33-3)
RQ No
TPQ NO
List No
Chemical Catg No

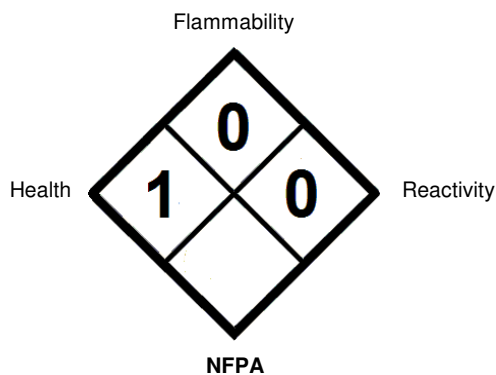
Federal, State &
International Regulations –
Part 2:Ingredient
EDTA Disodium Salt (139-33-3)
CERCLA No
261.33 No
8(d) No

Chemical Weapons Convention:No
TSCA 12 (b):No
CDTA:NO Mixture/Liquid)
SARA 311/312: Acute: Yes
Chronic: NO
Fire: No
Pressure: No
Reactivity: No
Australian Hazchem Code: None
Poison Schedule: None allocated

SECTION 16 Additional Information

Conditions aggravated/target organs: Persons with preexisting skin, eye and respiratory disorders may be more susceptible. Acute: Possible skin and eye irritation. Chronic: None known.

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Revisions

7/30/2010	0.1	updated msds to 16 section from 10 section msds. STN
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