

MATERIAL SAFETY DATA SHEET

Versenate Hardness Titrating Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Versenate Hardness Titrating Solution
Product Code: 205-01
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: 7/29/2010
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

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

SECTION 2 HAZARD IDENTIFICATION

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

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, Redness and Pain.
Eye Contact:May Cause Irritation, Redness and Pain.
Chronic Exposure:No Information Found.
Aggravated by Exposure:No Information Found.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	1,2-Propanediol (Propylene Glycol)	CAS# 57-55-6	~35%	V/V	
<input type="checkbox"/>	Ethylenedinitrilotetra- acetic Acid,Disodium Salt	CAS# 6381-92-6	0.1 - 0.5%	W/V	None established
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established
CAS #:	CHEMICAL NAME				
139-33-3	EDTA Disodium Salt 0.37 to 3.0%				
57-55-6	Propylene Glycol <40%				

SECTION 4 FIRST AID MEASURES

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

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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

If swallowed give large quantities of water and get medical attention immediately.

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.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	~-74.2° F (-59°C)	Percent Volatile by Volume:	not available
Boiling Point:	370.4° F (188°C)	Evaporation Rate	Information not available
Vapor Pressure:	not available	Evaporation Standard	
Vapor Density:	not available	Auto Ignition Temp	Not available
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not available
Appearance /Odors:	Colorless	Upper Flamm. Limit in Air	Not available

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liquid, mild
odor
Flash Point: Not flammable
Specific Gravity: Information
not available

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: High temperatures, Light
Materials to Avoid: Halides, Ammonia, Phospahtes
Hazardous Decomposition Products: oxides of carbon, nitrogen
Hazardous polymerization: Will Not Occur
Conditions to Avoid: none

SECTION 11 Toxicological Information

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

SECTION 12 Ecological Information

No Information Found.

SECTION 13 Disposal Considerations

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)
Propylene Glycol (57-55-6)
TSCA Yes Yes
EC Yes Yes
Japan YES Yes
Australia Yes Yes

Chemical Inventory Status –
Part 2:Ingredient
EDTA Disodium Salt (139-33-3)
Propylene Glycol (57-55-6)
Korea Yes Yes
DSL Yes Yes
NDSL No No
Phil. Yes Yes

Federal, State & International Regulations –
Part 1: Ingredient.
EDTA Disodium Salt (139-33-3)
Propylene Glycol (57-55-6)

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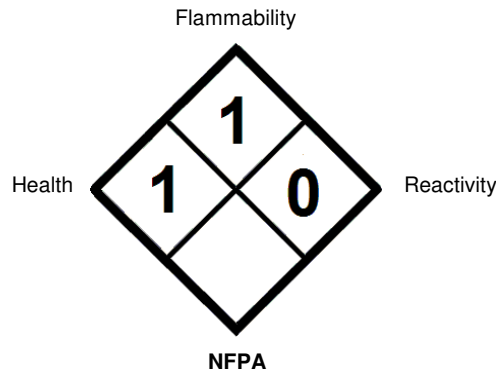
RQ NO No
 TPQ NO NO
 List NO No
 Chemical Catg No No

Federal, State &
 International Regulations –
 Part 2:Ingredient
 EDTA Disodium Salt (139-33-3)
 Propylene Glycol (57-55-6)
 CERCLA NO No
 261.33 No No
 8(d) No No

Chemical Weapons Convention:No
 TSCA 12 (b):No
 CDTA:Yes 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 pre-existing skin, eye or respiratory disorders are more susceptible. Overexposure symptoms. Acute: Slight irritation to skin, eyes, mucous membranes, and GI tract. Effects of overexposure. Acute and chronic: Harmful by inhalation, ingestion, skin absorption. May cause eye and skin irritation and central nervous system problems. May cause GI disturbances, nausea, headache and vomiting. Target organs: None. Persons with pre-existing disorders may be more susceptible.



Revisions

7/29/2010	0.1	updated msds to 16 section from 10 section msds. STN
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