

MATERIAL SAFETY DATA SHEET

Versenate Hardness Titrating Solution

SECTION 1 . Product and Company Identification

Product Name and	Versenate Hardness Titrating Solution																			
Product Code:	205-09-5																			
Material Uses:	OFI Testing Equipment Inc.	Health:	1																	
Manufacturer:	11302 Steeplecrest Dr.	Flammability:	1																	
	Houston, TX 77065	Reactivity:	0																	
	(877) 837-8683	Hazard Rating: <table border="0"> <tr> <td>Least</td> <td>Slight</td> <td>Moderate</td> <td>High</td> </tr> <tr> <td>Extreme</td> <td>0</td> <td>1</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> <td>4</td> </tr> </table>			Least	Slight	Moderate	High	Extreme	0	1	2				3				4
Least	Slight	Moderate	High																	
Extreme	0	1	2																	
			3																	
			4																	
Entry Date :	7/15/2013	NA=Not Applicable NE=Not Established																		
Print Date:	7/15/2013																			
24 Hour Emergency Assistance :	INFOTRAC USA - CANADA: 1-800-535-5053 INTERNATIONAL: 1-352-323-3500																			

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 with 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
	1,2-Propanediol (Propylene Glycol)	CAS# 57-55-6	~35%	V/V	
	Ethylenedinitrilotetra-acetic Acid,Disodium Salt	CAS# 6381-92-6	0.1 - 0.5%	W/V	None established
	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

Versenate Hardness Titrating Solution

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.

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

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire
None

Fire / Explosion Hazards:

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
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	not available
Boiling Point:	370.4° F (188°C)	Evaporation Rate	Information not available
Vapor Pressure:	not available	Evaporation Standard	

Versenate Hardness Titrating Solution

Vapor Density:	respiration. If breathing is difficult, give oxygen	not available	Auto Ignition
Temp	Not available		
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not available
Appearance /Odors:	Colorless liquid, mild odor	Upper Flamm. Limit in Air	Not available
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, Phosphahtes
Hazardous Decomposition	oxides of carbon, nitrogen
Products:	
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:Ingrdient

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 –

Page 3 of 4 Part 1: Ingredient.

EDTA Disodium Salt (139-33-3)

Propylene Glycol (57-55-6)

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:NO Mixture/Liquid)
SARA 311/312: Acute:NO
Chronic: NO
Fire: No
Pressure: No
Reactivity: No
Australian Hazchem Code: None
Poison Schedule: None allocated

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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

Flammability

Health

Reactivity

Revisions

7/1/2010

NFPA

0.1

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