

MATERIAL SAFETY DATA SHEET

Calcium Titration Solution I

SECTION 1 . Product and Company Identification

Product Name and Calcium Titration Solution I

Product Code: 205-24

Material Uses: OFI Testing Equipment Inc. Health: 2
Flammability: 0

Manufacturer: 11302 Steeplecrest Dr. Reactivity: 1

Houston, TX 77065

(877) 837-8683

Entry Date : 7/16/2013

Print Date: 7/16/2013

24 Hour Emergency Assistance : INFOTRAC USA - CANADA: 1-800-535-5053
INTERNATIONAL: 1-352-323-3500

Hazard Rating:				
Least	Slight	Moderate	High	
Extreme				
0	1	2	3	4

NA=Not Applicable NE=Not Established

SECTION 2 HAZARD IDENTIFICATION

Causes severe irritation and burns. May be harmful if swallowed. May be harmful if absorbed through the skin. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

Emergency Overview: Danger! Corrosive. Causes burns to any area of contact. Harmful if swallowed or inhaled. Affects the blood. May cause methemoglobinemia.

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

Ingestion: High concentrations cause coma and death from circulatory collapse. May convert hemoglobin to methemoglobin, producing cyanosis. May also cause nausea, vomiting, fall in blood pressure, headache, vertigo, ringing in the ears, shortness of breath.

Skin: Irritant and possible sensitizer.

Eye Contact: Corrosive to the eyes. May cause severe irritation and corneal damage.

Chronic Exposure: This substance is a blood toxin, causing hemoglobin to convert to methemoglobin, resulting in cyanosis. Lengthy or repeated exposure may result in decreased appetite, anemia, weight loss, nervous system affects, and kidney, liver and bone marrow damage.

Aggravated by Exposure: Persons with pre-existing disorders of the blood, skin, liver, kidneys or lungs may be at an increased risk from exposure

SECTION 3 MIXTURE COMPONENTS

Calcium Titration Solution I

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
	Hydroxylamine	CAS# 5470-11-1	10%	W/V	TXDS: orl-mouse LD \bullet : 408 mg/Kg
	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

SECTION 4 FIRST AID MEASURES

Causes severe irritation and burns. May be harmful if swallowed. May be harmful if absorbed through the skin. Avoid breathing vapor or dust. Use with adequate

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 respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! 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 Known.

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. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from entering. Use Water Spray to Dilute Spill to a Nonflammable Mixture.

Contain and Recover Liquid when Possible. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and place in a Chemical Waste Container. Use Non-Sparking Tools and Equipment. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

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

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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:	Information not available	Percent Volatile by	90
Boiling Point:	Information not available	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:	Colorless odorless liquid	Upper Flamm. Limit in Air	not applicable
Flash Point:	Not flammable		
Specific Gravity:	~1		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:	Stable
Conditions to Avoid:	Avoid contact with incompatible materials.
Materials to Avoid:	Strong oxidizing agents, metals, acids. Copper sulfate, ether, zinc
Hazardous Decomposition	Nitric oxide and ammonia fumes
Products:	
Hazardous polymerization:	Not expected to 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 Flound.

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

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DOT Classification: ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Not Regulated
DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15

Regulatory Information

General Reactivity: Stable Under Ordinary Conditions of Use and Storage.

Hazardous Decomposition: Emits Toxic Fumes of Nitrogen Oxides and Hydrogen Chloride when Heated to Decomposition.

Incompatibilities: Strong Oxidizing Agents, Heat plus Sodium Acetate or Ether, Carbonyl Compounds, Copper Sulfate, Zinc and Phosphorus Chlorides.

Hazardous Polymerization: Will Not Occur.

SECTION 16

Additional Information

Inhalation may cause coughing, headache, difficulty in breathing, chest pain, lung irritation and pulmonary edema. May cause irritations or burns to eyes and skin. May be fatal if ingested.
Conditions aggravated/target organs: Persons with pre-existing eye, skin and respiratory condition may be more susceptible.

Flammability

Health

Reactivity

Revisions

7/30/2010

NFPA

0.1

updated msds to 16 section from 10 section msds. STN

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