

# MATERIAL SAFETY DATA SHEET

## Calcium Indicator Solution

### SECTION 1 . Product and Company Identification

Product Name and	Calcium Indicator Solution	Health:	2
Product Code:	250-02	Flammability:	0
Material Uses:		Reactivity:	0
Manufacturer:	OFI Testing Equipment Inc. 11302 Steeplecrest Dr. Houston, TX 77065 (877) 837-8683		

  

Entry Date :	7/18/2013		
Print Date:	7/18/2013		
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

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:Poison! Danger! May be fatal if swallowed or inhaled. May cause burns to respiratory tract and severe irritation to skin and eyes. May affect kidneys.  
 Inhalation:Inhalation of dust is corrosive to mucous membranes. Oxalates can be absorbed through the lungs. Symptoms of poisoning include nervousness, cramps, central nervous system depression.

Corrosive action on the mucosa and severe gastroenteritis can occur with pain, vomiting, etc.  
 Ingestion:Sharp reduction of serum calcium can cause dysfunction of the brain.  
 Skin:Skin contact may produce severe skin irritation with burning, redness.  
 Eye Contact:May cause severe irritation and pain. May cause burns.  
 Chronic Exposure:Circulatory failure or nervous system irregularities may follow prolonged calcium metabolism disturbances due to oxalation.

### SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
	Ammonium Oxalate	CAS# 6009-70-7	4 - 6%	W/V	OSHA PEL 200 ppm acgih TLV 200 PPM
	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

### 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 large amounts are swallowed give water to drink and seek medical aid.

### SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire  
oxidizer. Contact with combustible  
Fire / Explosion Hazards: materials may cause a fire.  
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. Keep unnecessary and unprotected people away from area of spill.

Wear appropriate personal protective equipment as specified in section 8. Contain and recover liquid when possible. Collect liquid in a appropriate container and absorb with dry sand, vermiculite, earth or other inert substance and package in a suitable container for disposal. 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. Protect from physical damage and freezing. Do not reuse

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

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	>94%
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	Information not available
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Information not available

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	containers.		
Appearance /Odors:	Clear, colorless, odorless liquid	Upper Flamm. Limit in Air	Information not available
Flash Point:	Not flammable		
Specific Gravity:	Information not available		

### SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:	Stable
Conditions to Avoid:	Avoid contact with incompatible materials.
Materials to Avoid:	Oxidable materials, metals, acids, sodium hypochlorite.
Hazardous Decomposition	
Products:	Burning may produce ammonia and nitrogen oxides
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

Environmental Fate: No information found  
Environmental Toxicity: No information found

### SECTION 13

#### Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine

specific disposal requirements. 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  
Ammonium Oxalate (1113-38-8)  
TSCA Yes  
EC Yes  
Japan YES  
Australia Yes

Chemical Inventory Status –  
Part 2: Ingredient  
Ammonium Oxalate (1113-38-8)  
Korea Yes  
DSL Yes  
NDSL No  
Phil. Yes

Federal, State & International Regulations –

*Page 3 of 4* Part 1: Ingredient.  
Ammonium Oxalate (1113-38-8)  
RQ No  
TPQ No

List NO  
Chemical Catg No

Federal, State &  
International Regulations –  
Part 2:Ingredient  
Ammonium Oxalate (1113-38-8)  
CERCLA 5000  
261.33 No  
8(d) No

Chemical Weapons Convention: No  
TSCA 12 (b):No  
CDTA:No MIXTURE/SOLID  
SARA 311/312: Acute:YES  
Chronic: YES  
Fire: No  
Pressure: No  
Reactivity: No  
Australian Hazchem Code: NONE ALLOCATED  
Poison Schedule:NONE ALLOCATED

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## SECTION 16

### Additional Information

Target Effects: Neurotoxin, nephrotoxin. Poison! Danger! May be fatal if swallowed or inhaled! May cause burns to respiratory tract and severe irritation to skin and eyes. May affect kidneys. Skin contact may cause severe irritation and pain. May cause skin burns.

Flammability

Health

Reactivity

### Revisions

7/30/2010

### NFPA

0.1

updated msds to 16 section from 10 section msds. STN

0

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