

# MATERIAL SAFETY DATA SHEET

Triethanolamine 10% Solution

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Triethanolamine 10% Solution

Product Code: 205-55

Material Uses:

Manufacturer:

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

Entry Date : 5/10/2010

Print Date: 7/30/2010

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

Health:	1			
Flammability:	2			
Reactivity:	2			
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:Warning! Harmful If Swallowed. Causes Skin Irritation And Severe Eye Irritation.

Inhalation:No Adverse Effects Expected Since Triethanolamine has a Low Vapor Pressure.

Ingestion:May Cause Burns in the Mouth, Pharynx, and Esophagus, Abdominal Pain, Nausea, Vomiting and Diarrhea.

Skin:May Cause Irritation, Redness, and Pain, Especially on Prolonged or Repeated Contact.

Eye Contact:Corrosive! Contact Causes Severe Irritation, Burns, Redness, and Pain. May Cause Irritation, Redness, Pain, and Corneal Damage.

Chronic Exposure:Repeated Ingestion has Caused Kidney and Liver Damage to Animals.

Aggravated by Exposure:No Information Found.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Triethanolamine 99%	CAS# 102-71-6	10%	V/V	OSHA TWA 50 ppm (270 mg/m <sup>3</sup> )
<input type="checkbox"/>	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

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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: Carbon Dioxide, dry chemical powder or appropriate foam

Fire / Explosion Hazards: Thermal decomposition produces highly toxic fumes. Do not direct water stream at burning pools.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing. Dike and collect water used to fight fire.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Wear Protective equipment. 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 (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waster Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush To Sewer!

### SECTION 7 HANDLING AND STORAGE

Wash thoroughly after handling. Remove contaminated clothes and wash before reuse. Use with adequate ventilation. Store in a cool dry well ventilated area. Keep out of direct sunlight and away from heat, water and incompatible materials.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: PVC coated, Butyl, or other suitable gloves.

Eye Protection: Goggles and Face Shield

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	Information not available	Percent Volatile by Volume:	~ 80%
Boiling Point:	635° F	Evaporation Rate	Information not

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	(335° C)		available
Vapor Pressure:	5.1	Evaporation Standard	
Vapor Density:	<0.01 @68° F	Auto Ignition Temp	599° F (315° C)
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	1.3%
Appearance /Odors:	Clear to pale yellow liquid with ammonia odor	Upper Flamm. Limit in Air	8.5%
Flash Point:	354° F (179° C)		
Specific Gravity:	1.13 @20° C		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	Sensitive to light and air
Materials to Avoid:	Oxidizing agents, acids. Copper, copper alloys, galvanized iron, acids, oxidizers
Hazardous Decomposition Products:	Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

**SECTION 11 Toxicological Information**

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

**SECTION 12 Ecological Information**

When Released into the Soil, this Material is Expected to Biodegrade. When Released into the Soil, this Material may Leach into Groundwater. When Released into the Soil, this Material is Expected to have a Half-Life of 1 and 10 Days. When Released into the Water, this Material is Expected to Readily Biodegrade.

**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**

All components listed on TSCA Inventory.

**SECTION 16 Additional Information**

Conditions aggravated: Persons with preexisting skin, eye or respiratory conditions may be more susceptible. Acute: Irritation or burns to skin, eyes, mouth, respiratory and digestive systems. Chronic: Dermatitis, conjunctivitis, kidney and liver damage. Target Organs: Liver, kidneys.

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Flammability

Health

Reactivity

**Revisions**

**NFPA**

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