

OFI TESTING EQUIPMENT, INC.
MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT AND COMPANY IDENTIFICATION	
Chemical Name:	TRIETHANOLAMINE SOLUTION
Trade Name:	TRIETHANOLAMINE 10%
OFI Part No.	205-55
Chemical Family:	Not Applicable to Mixtures
Formula:	Not Applicable to Mixtures
Manufacturer:	OFI Testing Equipment, Inc. 1006 West 34 th Street Houston, TX 77018 U.S.A. (713) 880-9885
In Case of Emergency Spills, Leaks, Fire, Exposure or Accident:	In the USA, call INFOTRAC at 1-800-535-5053 day or night Outside the USA, call collect, (352) 323-3500
SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS	
CAS #:	CHEMICAL NAME
102-71-6	Triethanolamine 10%
SECTION III - HAZARD IDENTIFICATION	
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 IV - FIRST AID MEASURES	
Inhalation:	Not Expected to Require First Aid Measures.
Ingestion:	Do Not Induce Vomiting! Give Large Quantities of Water. Never Give Anything by Mouth to an Unconscious Person. Get Medical Attention Immediately.
Skin:	In Case of Contact, Immediately Flush Skin with Plenty of Water for at Least 15 Minutes while Removing Contaminated Clothing and Shoes. Wash Clothing and Shoes Before Reuse.
Eyes:	Immediately Flush Eyes with Plenty of Water for at Least 15 Minutes, Lifting Lower and Upper Eyelids Occasionally. Get Medical Attention Immediately.
SECTION V - FIRE FIGHTING MEASURES	
Fire:	Flash Point: 354 °F (179 °C) OC, Auto Ignition Temperature: 599 °F (315 °C), Flammable Limits in Air % by Volume: 1.3 uel- 8.5 (uel value estimated). Information based on concentrated Triethanolamine.
Explosion:	Above Flash Point, Vapor-Air Mixtures are Explosive within Flammable Limits noted above.
Fire Extinguishing Media:	Dry Chemical, Alcohol Foam or Carbon Dioxide. Water Spray may be Used to Keep Fire Exposed Containers Cool. Water can also be used to Flush Material from Fire and to Dilute Spills to Non-Combustible Mixtures. Water or Foam may Cause Frothing.
Special Information:	In the Event of Fire, Wear Full Protective Clothing and NIOSH-Approved Self-Contained Breathing Apparatus with Full Facepiece Operated in the Pressure Demand or Other Positive Pressure Mode.
SECTION VI - ACCIDENTAL RELEASE MEASURES	
	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 Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush To Sewer!
SECTION VII - HANDLING AND STORAGE	
	Store in a Cool, Dry, Ventilated Storage Area with Acid Resistant Floors and Good Drainage. Protect from Physical Damage. Keep Out of Direct Sunlight and Away from Heat, Water, and Incompatible Materials. Do Not use Aluminum for Storage of Aqueous Solutions. Isolate from Acidic Materials. Do Not Store Above 110 °F (43 °C). Do Not Wash out Container and Use it for Other Purposes. Containers of this Material May be Hazardous when Empty Since they Retain Product Residues (Vapors, Liquid).

SECTION VIII - EXPOSURE CONTROL / PERSONAL PROTECTION	
Ventilation System:	A System of Local and/or General Exhaust is Recommended to Keep Employee Exposures Below the Airborne Exposure Limits. Local Exhaust Ventilation is Generally Preferred Because it can Control the Emissions of the Contaminant at its Source, Preventing Dispersion of it into the General Work Area.
Airborne Exposure Limits:	ACGIH Threshold Limit Value (TLV) 5 mg/m ³ (TWA)
Personal Respirators: (NIOSH APPROVED)	If the Exposure Limit is Exceeded, Wear a Supplied Air, Full-Facepiece Respirator, Airlined Hood, or Full-Facepiece Self-Contained Breathing Apparatus. This Substance has Unknown Warning Properties.
Skin Protection:	Wear Protective Gloves and Clean Body-Covering Clothing.
Eye Protection:	Use Chemical Safety Goggles and/or Full Face Shield where Splashing is Possible. Maintain Eye Wash Fountain and Quick-Drench Facilities in Work Area.
SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance / Odor:	Clear, to Light Yellow Liquid / Slight Ammonia Odor
Solubility:	Infinitely Soluble
Specific Gravity:	1.13 at 20 °C
pH:	9.5 to 10.5
% Volatiles by Vol.:	0
Melting Point:	72 ° F (21.6 °C), Super Cools Easily
Boiling Point:	635 ° F (335 °C)
Vapor Density (Air=1):	5.1
Vapor Pressure (mmHg):	< 0.01 @ 68 °F (20 °C)
SECTION X - STABILITY AND REACTIVITY	
General Reactivity:	Stable Under Ordinary Conditions of Use and Storage. Darkens on Exposure to Air or Light.
Hazardous Decomposition:	Burning may Produce Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides.
Incompatibilities:	Copper, Copper Alloys, Galvanized Iron, Acids, and Oxidizers.
Hazardous Polymerization:	Will Not Occur.
Conditions to Avoid:	Heat, Ignition Sources, Moisture, Incompatibles
SECTION XI - TOXICOLOGICAL INFORMATION	
Carcinogenic References:	IARC Category- None, NTP Carcinogen - Known: No
SECTION XII - 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 XIII - 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 XIV - TRANSPORT INFORMATION	
Hazard Class:	Not Regulated
Identification No.:	Not Regulated
SECTION XV - REGULATORY INFORMATION	
	All components listed on TSCA Inventory.
SECTION XVI - OTHER INFORMATION	
NFPA Rating:	HEALTH-1, FLAMMABILITY-2, REACTIVITY-2
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