

Material Safety Data Sheet

Triethanolamine 10% Solution (RXSOL-60-6211-500)



1. Product and Company Identification

Product Name Triethanolamine 10% Solution

Product Type RXSOL-60-6211-500

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Phone +91 22 65113333 / 5555 / 9999

Fax +91 22 2781 1318 ::AOH :0091 9821214367

Email mail@rxmarine.com

2. Composition / information on ingredients

SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Triethanolamine 99%	CAS# 102-71-6	10%	V/V	OSHA TWA 50 ppm (270 mg/mf)
Water, Deionized ASTM Type II	CAS# 7732-18-5	90%	V/V	None Established

3. Hazards 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.

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.

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.

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.

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 Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush To Sewer!

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.

8. Exposure controls and personal protection

Respiratory Protection	None required
Ventilation	Local
OTHER	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

9. Physical and chemical properties

BOILING POINT	635° F (335°C)
VAPOR PRESSURE	5.1

MELTING POINT	information not available
VAPOR DENSITY	0.01 @68° F
EVAPORATION RATE	information not available
Appearance /Odors	Clear to pale yellow liquid with ammonia
Flash Point	354° F (179°C)
Specific Gravity	1.13 @20° C
Percent Volatile by	~80%
Evaporation Standard	information not available
Auto Ignition Temp	599° F (315° C)
Lower Flamm. Limit in Air	1.3%
Upper Flamm. Limit in Air	8.5%
Solubility in Water	Soluble

10. Stability and reactivity

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

11. Toxicological information

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

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.

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.

14. Transport information

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

15. Regulatory information

All components listed on TSCA Inventory.

16. Other 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.

Flammability

Health

Reactivity

Revisions

NFPA

7/30/2010

0.1 updated msds to 16 section from 10 section msds. STN

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