# Material Safety Data Sheet

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

## 1. Product and Company Identifaction

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|---|---|
| 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 |
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## 2. Composition / informationon 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/m*f*) |
| 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, Pharnyx, 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.

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| 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

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| 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 Waster 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 incompativle materials.

## 8. Exposure controls and personal protection

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| 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

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

| | |
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| 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

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|---|---|
| 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 |
| | 0 |

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