Material Safety Data Sheet
Triethylamine MSDS

Section 1: Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Triethylamine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Codes:</td>
<td>SLT2233</td>
</tr>
<tr>
<td>CAS#:</td>
<td>121-44-8</td>
</tr>
<tr>
<td>RTECS:</td>
<td>YE0175000</td>
</tr>
<tr>
<td>TSCA:</td>
<td>TSCA 8(b) inventory: Triethylamine</td>
</tr>
<tr>
<td>CI#:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Synonym:</td>
<td>Diethylamino ethane</td>
</tr>
<tr>
<td>Chemical Name:</td>
<td>Ethanamine, N,N-diethyl</td>
</tr>
<tr>
<td>Chemical Formula:</td>
<td>(CH3CH2)3N</td>
</tr>
<tr>
<td>Contact Information:</td>
<td>ScienceLab.com, Inc.</td>
</tr>
<tr>
<td></td>
<td>14025 Smith Rd.</td>
</tr>
<tr>
<td></td>
<td>Houston, Texas 77396</td>
</tr>
<tr>
<td>US Sales:</td>
<td>1-800-901-7247</td>
</tr>
<tr>
<td>International Sales:</td>
<td>1-281-441-4400</td>
</tr>
<tr>
<td>Order Online:</td>
<td>ScienceLab.com</td>
</tr>
<tr>
<td>CHEMTREC (24HR Emergency Telephone), call:</td>
<td>1-800-424-9300</td>
</tr>
<tr>
<td>International CHEMTREC, call:</td>
<td>1-703-527-3887</td>
</tr>
<tr>
<td>For non-emergency assistance, call:</td>
<td>1-281-441-4400</td>
</tr>
</tbody>
</table>

Section 2: Composition and Information on Ingredients

| Composition: |
|---|---|---|
| Name | CAS # | % by Weight |
| Triethylamine | 121-44-8 | 100 |

Toxicological Data on Ingredients: Triethylamine: ORAL (LD50): Acute: 460 mg/kg [Rat.]. DERMAL (LD50): Acute: 570 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of ingestion. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Finish by rinsing thoroughly with running water to avoid a possible infection. Cold water may be used.

**Skin Contact:**
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Serious Skin Contact:**
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Serious Ingestion:** Not available.

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**Section 5: Fire and Explosion Data**

<table>
<thead>
<tr>
<th>Flammability of the Product:</th>
<th>Flammable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Ignition Temperature:</td>
<td>215°C (419°F)</td>
</tr>
<tr>
<td>Flash Points:</td>
<td>CLOSED CUP: -8.3°C (17.1°F). OPEN CUP: -6.67°C (20°F) (Cleveland).</td>
</tr>
<tr>
<td>Flammable Limits:</td>
<td>LOWER: 1.2% UPPER: 8%</td>
</tr>
<tr>
<td>Products of Combustion:</td>
<td>These products are carbon oxides (CO, CO2).</td>
</tr>
<tr>
<td>Fire Hazards in Presence of Various Substances:</td>
<td>Highly flammable in presence of open flames and sparks, of heat, of oxidizing materials.</td>
</tr>
<tr>
<td>Fire Fighting Media and Instructions:</td>
<td>Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.</td>
</tr>
<tr>
<td>Special Remarks on Fire Hazards:</td>
<td>Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits toxic fumes.</td>
</tr>
<tr>
<td><strong>Special Remarks on Explosion Hazards:</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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**Section 6: Accidental Release Measures**

**Small Spill:**
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined
Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage:
Alkalis may be stored in heavy-duty gauge steel containers. Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Oily liquid.)
Odor: Ammoniacal. (Strong.)
Taste: Not available.
Molecular Weight: 101.1 g/mole
Color: Colorless.
pH (1% soln/water): 10 [Basic.]
Boiling Point: 89.7°C (193.5°F)
Melting Point: -115°C (-175°F)
Critical Temperature: Not available.
Specific Gravity: 0.73 (Water = 1)
Vapor Pressure: 54 mm of Hg (@ 20°C)
Vapor Density: 3.48 (Air = 1)
Volatility: Not available.
Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol, diethyl ether.

Solubility: Easily soluble in cold water, hot water, methanol, diethyl ether.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Slightly reactive to reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation.

Toxicity to Animals:
Acute oral toxicity (LD50): 460 mg/kg [Rat.]. Acute dermal toxicity (LD50): 570 mg/kg [Rabbit.].

Chronic Effects on Humans: The substance is toxic to kidneys, liver.

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Lacrymator.

Special Remarks on other Toxic Effects on Humans: Material is destructive to tissue of the mucous membranes and upper respiratory tract.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations
Waste Disposal:

Section 14: Transport Information

DOT Classification: Class 3: Flammable liquid.
Identification: Triethylamine : UN1296 PG: II
Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Massachusetts RTK: Triethylamine TSCA 8(b) inventory: Triethylamine SARA 313 toxic chemical notification and release reporting: Triethylamine CERCLA: Hazardous substances.: Triethylamine


Other Classifications:
WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):
R11- Highly flammable. R38- Irritating to skin. R41- Risk of serious damage to eyes.

HMIS (U.S.A.):

Health Hazard: 3
Fire Hazard: 3
Reactivity: 0
Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 3
Flammability: 3
Reactivity: 0
Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References:

Other Special Considerations: Not available.
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.