

SAFETY DATA SHEET (SDS)

Triethylamine

01. Product and Company Identification

Product Identifier:

Trade Name: Triethylamine
Chemical Name: Triethylamine, 99% minimum purity
Catalog Number: 14060054
Part of Kits: N/A
Use of chemical: Laboratory chemical

Identification of Manufacturer:

Manufacturer/Supplier: Biochemical Diagnostics, Inc.
 180 Heartland Blvd., Edgewood, NY 11717
 Phone: (631) 595-9200 | Fax: (631) 595-9204
Emergency telephone number: (800) 255-3924

02. Hazard(s) Identification

Classification of substance or mixture:

Flammable liquids (Category 2)
 Acute toxicity, Oral (Category 4)
 Acute toxicity, Inhalation (Category 3)
 Acute toxicity, Dermal (Category 3)
 Skin corrosion (Category 1A)
 Serious eye damage (Category 1)
 Specific target organ toxicity - single exposure (Category 3), Respiratory system
 Acute aquatic toxicity (Category 2)

Label elements:

Hazard pictograms



Flammable Toxic Corrosive Irritant

Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.
 H302 Harmful if swallowed.
 H311 + H331 Toxic in contact with skin or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H401 Toxic to aquatic life.

Precautionary statements:

P210 Keep away from heat.
 P233 Keep container tightly closed
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 2
 Fire = 3
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	2
FIRE	3
REACTIVITY	0

Health = 2
 Fire = 3
 Reactivity = 0

03. Composition/information on ingredients

Chemical Characterization: Compound

CAS No. Description : 121-44-8

Formula : C₆H₁₅N

04. First aid measures

Description of first aid measures:

Inhalation: Remove to fresh air. Consult a physician.

Ingestion: Rinse mouth with water. Consult a physician.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

05. Firefighting measures



Extinguishing media: Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

Special Fire Fighting Procedures: Wear proper protective equipment w/self-contained breathing apparatus. Use water spray to cool unopened containers.

Unusual Fire and Explosion Hazards: No data available.

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06. Accidental release measures	
Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.	
Environmental precautions: Prevent further leakage if safe to do. Do not allow to enter sewers/surface or ground water.	
Methods and material for containment and cleaning up: Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.	
Waste Disposal Method: Dispose in accordance with state, local and federal regulations	
07. Handling and storage	
Handling:	
Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition.	
Conditions for safe storage, including any incompatibilities:	
Requirements to be met by storerooms and receptacles: Keep away from sources of ignition	
Further information about storage conditions: Keep receptacle tightly closed. Store in well-ventilated, cool, dry conditions. Keep container sealed.	
08. Exposure controls/ personal protection	
Exposure Controls:	
Control parameters: Components with limit values that require monitoring at the workplace: 121-44-8 Triethylamine TLV ACGIH value: 1 ppm PEL exposure limit: 25 ppm, 100 mg/m ³ STEL Short-term limit: 3 ppm	
Personal protective equipment:	
General protective and hygienic measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.	
Eye Protection:	 Tightly sealed safety glasses or face shield.
Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact	
Protection of Hands:	 Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Dispose of gloves after use. Wash and dry hands.	

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Respiratory Protection: If the exposure limit is exceeded use NIOSH approved and tested full-face respirator that is independent of circulating air.

Ventilation: Keep vapor levels as low as possible, use adequate general or local exhaust.

09. Physical and chemical properties

Appearance:

Form: Liquid

Color: Clear, Colorless

Odor: Amine-like

pH: 12.7 at 100 g/l at 15 °C

Melting Point: -115 °C (-175 °F)

Boiling Point: 88.8 °C (191.8 °F)

Flash Point: -14.99 °C (5.02 °F) –closed cup

Ignition temperature: > 215 °C (>419 °F)

Explosion limits: Lower: N/A

Upper: N/A

Vapor Pressure @ 20°C: 68.99 hPa (51.75 mmHg)

Specific Gravity @ 20°C (68°F): 0.726 g/cm³

Vapor Density @25°C: 3.49 g/L (Air = 1.0)

Percent Volatile: N/A

Evaporation Rate: N/A

Flammable Limits in air % by volume: Lel: 1.2%

Uel: 8%

Solubility in/ Miscibility with Water@20°C: 112 g/L water

10. Stability and reactivity

Stability: Stable

Incompatibility: Strong oxidizing agents

Conditions to Avoid: Heat, flame, and sparks.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides

11. Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

LD50 Oral - Rat - 730 mg/kg

LD50 Inhalation – Rat – 4 h – 7.1 mg/l

LD50 Dermal – Rabbit – 580 mg/kg

Potential health effects:

On the skin: Causes skin corrosion.

On the eye: Causes serious eye damage.

Inhalation: May cause irritation to respiratory tract.

Ingestion: May be harmful if swallowed.

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12. Ecological information
Toxicity:

LC50 - Oryzias latipes (Orange-red killifish) - 24 mg/l - 96 h
 LC50 - Daphnia dubia (water flea) - 17 mg/l - 48 h
 NOEC - Pseudokirchneriella subcapitata (green algae) - 1.1 mg/l - 72 h
 EC50 - Pseudokirchneriella subcapitata (green algae) - 8 mg/l - 72 h
 LC50 - Bacteria - 95 mg/l - 17 h

Persistence and degradability: aerobic - Exposure time 28 d

Result: 80 % - Readily biodegradable

Bioaccumulative potential: Bioconcentration factor (BCF): < 0.5 Does not bioaccumulate.

Mobility in soil: No data available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

13. Disposal considerations
Waste treatment methods
Product:

Dispose of in accordance with local, state and federal regulations.

Contaminated packaging:

Disposal of as unused product.

14. Transport Information
UN Number:

1296

UN proper shipping name:

Triethylamine

Transport hazard class(es):

3 (8)

Packing group:

II

Environmental hazards:

Toxic to aquatic life.

Special precautions

None

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15. Regulatory Information**SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

The following components are subject to reporting levels established by SARA Title III, Section 313: Triethylamine CAS-No. 121-44-8 Revision Date 2007-07-01

SARA 311/312 Hazards:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

16. Other Information**Revision B, June 2015**

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, we make no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, we will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either express or implied of merchantability fitness for a particular purpose or of any other nature made hereunder with respect to the information set forth herein or to the product which the information refers.