
1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Triethylamine
Synonyms	Methylene chloride
Grade	ACS, HPLC, Pesticide, Anapremium, Dehydrous
Company	Anaqua Chemicals Supply 1510 Eldridge Parkway, Suite 110-268 Houston, TX 77077, USA
Telephone	(281) 668-0032
Fax	(281) 668-0033

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Formula	C ₆ H ₁₅ N
CAS-No.	121-44-8
Index-No.	612-004-00-5
Ec-No.	204-469-4
Concentration	99 %

3. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids	Category 2
Acute toxicity, Inhalation	Category 4
Acute toxicity, Dermal	Category 4
Acute toxicity, Oral	Category 4
Skin corrosion	Category 1A

According to European Directive 67/548/EEC as amended.

Highly flammable. Causes severe burns. Harmful by inhalation, in contact with skin and if swallowed.

4. FIRST AID MEASURES

Inhalation	If breathed in, move into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin Contact	Immediately wash off with soap and plenty of water. Consult a physician.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, nitrogen oxides (NO _x)
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fighting fire if necessary. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Environmental precautions	Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Contain spillage, collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent build up of electrostatic charge.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure controls

Engineering Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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Personal protective Equipment

Respiratory protection	use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls when risk assessment shows air-purifying respirators are appropriate. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Skin protection	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374 derived from it.
Eye / face protection	Tightly fitting face shield (8-inch minimum) and safety glasses
Body protection	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	Colorless
pH	12.7 at 100 g/l at 15 °C
Melting point	-115 °C

Boiling point	88.8 °C
Flash point	-15 °C - closed cup
Ignition temperature	No data available
Lower explosion limit	1.2 % (V)
Upper explosion limit	8 % (V)
Vapor pressure	68.99 hPa at 20.0 °C 85.06 hPa at 30 °C
Density	0.726 g/mL at 25 °C (77 °F)
Water solubility	No data available
Partition coefficient: n-octanol/ water	log Pow: 1.15
Molecular weight	101.19

10. STABILITY AND REACTIVITY

Storage stability	No information available
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	No information available

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral 730 mg/kg (Rat) LC50 Inhalation - rat - 4 h – 7.1 mg/l LD50 Dermal - rabbit - 580 mg/kg
Skin irritation	Extremely corrosive and destructive to tissue (Rabbit) 24 h
Eyes irritation	No information available
Sensitization	No available information
Germ cell mutagenicity	No available information
Specific target organ toxicity – single exposure (GHS)	No available information
Specific target organ toxicity – repeated exposure (GHS)	No available information
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No available information
Aspiration hazard	No available information
Potential health effects	Inhalation Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion May be harmful if swallowed. Causes burns Skin Toxic if absorbed through skin. Causes skin burns. Eyes Causes eye burns.
Signs and Symptoms of Exposure	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi,

pneumonitis, pulmonary edema, burning sensation, Cough, wheezing,
laryngitis, Shortness of breath, Headache, Nausea, Vomiting

RTECS: YE0175000

Additional Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability	No available information
Toxicity to fish	LC50 43.7 mg/l (Pimephales promelas (fathead minnow)) 96 h LC50 126 - 150 mg/l (Oncorhynchus mykiss (rainbow trout)) 60 d LOEC 320 mg/l (Danio rerio (zebra fish)) 7 d
Toxicity to daphnia and aquatic invertebrates	EC50 200 mg/l (Daphnia magna (Water flea)) 48 h
Toxicity to bacteria	LC50 95 mg/l (Bacteria) 17 h
Bioaccumulative potential	No available information
Results of PBT and vPvB assessment	No available information
Mobility	No available information
Other adverse effects	No available information

13. DISPOSAL CONSIDERATIONS

Product	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. TRANSPORT INFORMATION

IATA

UN-Number: 1296 Class: 3 (8) Packing group: II
Proper shipping name: Triethylamine

IMDG

UN-Number: 1296 Class: 3 (8) Packing group: II
Proper shipping name: Triethylamine

EMS-No. F-A, S-A

DOT (US)

UN-Number: 1296 Class: 3 (8) Packing group: II
Proper shipping name: Triethylamine

Marine pollution: No

15. REGULATORY INFORMATION

Hazard statements

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H332: Harmful if inhaled.

Precautionary statements

P210: Keep away from heat/sparks/open flames/hot surfaces.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician.

GHS-Labeling

Pictogram



Signal word *Danger*

R-phrase(s): 11-20/21/22-3540

Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes severe burns.

S-phrase(s): 3-16-26-29-36/37/39-45

Keep in a cool place. Keep away from sources of ignition - No smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not empty into drains. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately

16. OTHER INFORMATION

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