

Section 1 Chemical Product and Company Information



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CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300
For laboratory use only.
Not for drug, food or household use.

Product	ANESTHEFLY SOLUTION
Synonyms	Triethylamine/Ethyl Alcohol Solution / Drosophila Anesthetizing Solution

Section 2 Hazards Identification

Signal word: DANGER

Pictograms: GHS02 / GHS05 / GHS07 / GHS08

Target organs: Eyes, Liver, Kidneys, Skin, Respiratory, Cardiovascular and Central nervous systems.

**GHS Classification:**

Flammable liquid (Category 2)
Acute toxicity-Oral (Category 4)
Acute toxicity-Dermal (Category 4)
Skin corrosion (Category 1A)
Acute toxicity-Inhalation (Category 3)
STOT-SE (Category 3)
STOT-SE (Category 2)

GHS Label information: Hazard statement:

H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H331: Toxic if inhaled.
H335: May cause respiratory irritation.
H371: May cause damage to organs.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331+P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362: Take off contaminated clothing and wash before reuse.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents/container to an approved waste disposal plant.

Ca Prop 65: This product contains a chemical known to the State of California to cause reproductive toxicity (Methanol, developmental).

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Triethylamine	121-44-8	50.00%	204-469-4
Cherry almond fragrance	None assigned	30.00%	None assigned
Ethyl alcohol	64-17-5	16.15-16.30%	200-578-6
Isopropyl alcohol	67-63-0	1.71%	200-661-7
Water	7732-18-5	1.00%	231-791-2
Methanol	67-56-1	0.76-0.816%	200-659-6
Methyl isobutyl ketone	108-10-1	0.17-0.19%	203-550-1

Section 4 First Aid Measures

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SEVERE SKIN BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Triethylamine	TWA: 1 ppm STEL: 3 ppm (A4)	TWA: 25 ppm / 100 mg/m ³	No data available

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Clear, colorless liquid.	Evaporation rate (Butyl acetate = 1): > 1	Partition coefficient: (n-octanol / water): Data not available
Odor: Pleasant, sweet odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: Data not available
Odor threshold: Data not available	Explosion limits: Lower / Upper: 1.2% / 8.0% TEA	Decomposition temperature: Data not available.
pH: Data not available	Vapor pressure (mm Hg): 52 @ 20°C (68°F) TEA	Viscosity: Data not available.
Melting / Freezing point: -115°C (-175°F) TEA	Vapor density (Air = 1): 3.5 TEA	Molecular formula: Mixture
Boiling point: 85-91°C (185-195°F) TEA	Relative density (Specific gravity): Approx. 0.726-0.730°C @ 20/20°C	Molecular weight: Mixture
Flash point: Approx. -8.30 (17.1°F)	Solubility(ies): Complete in water.	[TEA=Triethylamine]

Section 10 Stability & Reactivity

Chemical stability: Stable **Hazardous polymerization:** Will not occur.

Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Strong oxidizers, caustics.

Hazardous decomposition products: Carbon oxides, nitrogen oxides, ammonia fumes.

Section 11 Toxicological Information

Acute toxicity: TEA: Oral-rat LD50: 730 mg/kg ; Inhalation-rat LC50: 7.1 mg/L/2hours ; Dermal-rabbit LD50: 580 mg/kg

ETHANOL: Oral-rat LD50: 7060 mg/kg ; Inhalation-rat LC50: 124.7 mg/L/4hours

Skin corrosion/irritation: Skin-rabbit - Corrosive - TEA

Serious eye damage/irritation: Eye-rabbit - Corrosive - TEA

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol]

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects. [Ethanol]

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat.

Ingestion: Harmful if swallowed. Ingestion may cause dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma.

Skin: Contact with skin causes burns.

Eyes: Contact with eyes causes severe burns.

Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: YE0175000 [Triethylamine] / KQ6300000 [Ethanol]

Section 12 Ecological Information

Toxicity to fish: *Oncorhynchus mykiss* (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol] ; *Oncorhynchus mykiss* (fish, fresh water), LC50 = 126-150 mg/l/60 days [TEA]

Toxicity to daphnia and other aquatic invertebrates: *Daphnia magna* (Crustacia), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure] ; *Daphnia magna* (Water flea) 200 mg/L/48 hr [TEA]

Toxicity to algae: *Chlorella pyrenoidosa* (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute]

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

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

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: UN2924 **Shipping name:** Flammable liquids, corrosive, n.o.s., (Triethylamine, Ethyl alcohol)

Hazard class: 3, (8)

Packing group: II

Reportable Quantity: 5,000 lbs (2270 kg)

Marine pollutant: No

Exceptions: Limited quantity equal to or less than 1 L

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Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Ethanol	Listed	Not listed	D001	Listed	Not listed	B2; D2B
Triethylamine	Listed	5,000 lbs (2270)	U404	Listed	Not listed	Not listed

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.