

SAFETY DATA SHEET

CHEMICAL DISTRIBUTION SOLUTIONS

SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: TRIETHYLAMINE
Control Number: 00241
Product Description: Ethanol Amine

COMPANY IDENTIFICATION

Supplier: Chemical Distribution Solutions
1125 Oak St. Ste. 303
Conway, AR 72032

24 Hour Emergency Telephone: (800) 424-9300 CHEMTREC
General Information: (501) 978-1111

SECTION 2- HAZARDS IDENTIFICATION

GHS Classification:

[Health]

Acute toxicity, Oral Category 4
Acute toxicity, Inhalation Category 3
Acute toxicity, Dermal Category 3
Skin corrosion Category 1A
Serious eye damage Category 1

[Environmental]

Acute aquatic toxicity Category 2

[Physical]

Flammable liquids Category 2

GHS Label elements, including precautionary statements

Pictograms



Signal Word: Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
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 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.

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SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Triethylamine	121-44-8	90-100

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:

Eye Contact: Flush eyes with plenty of water for 15 minutes. Continue rinsing eyes until medical personnel arrive,
Skin Contact: Take off contaminated clothing and shoes immediately. Wash exposed area with soap and water. Get immediate medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention/advice.

SECTION 5 · FIRE FIGHTING MEASURES

Suitable Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products: Oxides of carbon and nitrogen

Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Fire and Explosion Hazards: Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may rupture in the heat of a fire.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Approach spill from upwind. Use water spray to cool and disperse vapors and protect personnel.

SECTION 7 · STORAGE AND HANDLING

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not breathe vapor. Use only with adequate ventilation. Keep away from heat, sparks and flame.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids. Keep away from organic halogens.

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Use explosion-proof ventilation equipment. Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

Exposure Limits: Triethylamine 1 ppm ACGIH 10 ppm OSHA data

Personal Protective Equipment (PPE):

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

Other Equipment: Eye wash station and shower in close proximity to use are advised.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: 5 °F

Autoignition Temperature: 480 °F

Boiling Point: 192 °F

Melting/Freezing Point: -175 °F

Vapor Pressure: 52 mmHg

Vapor Density (Air=1): 3.5

Odor/Appearance: Clear colorless liquid with slight ammonia odor

Flammability Limits: Lower: 1.2 Upper: 8

Relative Density: 0.726

Volatile %: No available data

Evaporation Rate (BuAc=1): 5.6

pH: 12.7 at 100 g/l

Water Solubility: 112 g/l

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and temperature conditions.

Conditions to Avoid: Ignition sources, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids, alcohols, halogenated agents, phenols, aldehydes, ketones, some metals.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, amines.

Hazardous Polymerization: Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Eye: Causes eye burns. Lachrymator. Low vapor concentrations may cause a temporary visual disturbance known as 'blue haze' or 'halo vision'.

Skin: Harmful if absorbed through the skin. Causes skin burns. Allergic reactions have been reported.

Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. May cause systemic effects.

Inhalation: Irritation may lead to chemical pneumonitis and pulmonary edema. Causes chemical burns to the respiratory tract. Inhalation of vapor can cause visual field changes, like foggy vision, blue haze, and halo phenomena.

Acute oral toxicity:

LD50 mouse: 730 mg/kg

Acute inhalation toxicity:

LC50 rat: 7.1 mg/l 4h

Acute dermal toxicity

LD50 rabbit: 580 mg/kg

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SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxicity to fish LC50 - *Oryzias latipes* (Orange-red killifish) - 24 mg/l - 96 h

Bio-accumulative potential: Rapidly biodegradable.

Mobility: No Available Data

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 - TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name: Triethylamine

Hazard Class: 3 (8)

UN Number: 1296

Packaging Group: 2

SECTION 15 - REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

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

The reportable quantity (RQ) for this material is 5000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA Section 313 (40 CFR 372) Hazard Categories: The following components are subject to reporting levels established by SARA Title III, Section 313: Triethylamine

Clean Water Act: Triethylamine in this product is listed as Hazardous Substances under the CWA.

Clean Air Act: Triethylamine in this product is listed as Hazardous Substances under the CCA.

California Prop 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

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SECTION 16 · OTHER INFORMATION

MSDS Revision Date: December 2014

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 3

Flammability: 3

Reactivity: 0

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.