



**Silver Fern Chemical, Inc.**  
**Safety Data Sheet**  
**Triethylamine**

**Revision Date: 07/16/2025**

**Section 1. Identification**

**Product Identity**

Triethylamine

**Other means of identification**

N,N-diethylethanamine

**Relevant identified uses of the substance or mixture and uses advised against**

Used as solvent, dye, medicine intermediate

**Details of the supplier of the safety data sheet**

**Company Name**

Silver Fern Chemical, Inc.  
121 W. De La Guerra Street, Suite B  
Santa Barbara, CA 93101 USA  
Customer Service: 1-866-282-3384  
info@silverfernchemical.com  
Website - www.silverfernchemical.com

**Emergency**

**24 hour Emergency**

**Telephone No.**

**Infotrac: 1-800-535-5053**

**Outside USA & Canada +1-352-323-3500**

**Section 2. Hazard(s) identification**

**Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)**

Flammable Liquid, category 2;H225

Highly Flammable liquid and vapor.

Acute toxicity(oral), category 4;H302

Harmful if swallowed.

Acute toxicity(dermal), category 3;H311

Toxic in contact with skin.

Acute toxicity(inhalation), category 3;H331

Toxic if inhaled.

Skin corrosion/irritation category 1;H314

Causes severe skin burns and eye damage.

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Serious eye damage / eye irritation,  
category 1;H318  
Specific target organ toxicity, repeated  
exposure category 1;H372

Causes serious eye damage.

Causes damage to organs through  
prolonged or repeated exposure.

**Label elements**



**Danger**

H225 Highly flammable liquid and vapor.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H331 Toxic if inhaled.  
H372 Causes damage to organs through prolonged or repeated exposure.

**[Prevention]**

P210 Keep away from heat, sparks, open flames, and other ignition sources - No smoking.  
P233 Keep container tightly closed.  
P235 Keep cool.  
P240 Ground, bond container and receiving equipment.  
P241 Use explosion-proof electrical, ventilating, light, equipment.  
P242 Use only non-sparking tools.  
P243 Take action to prevent static discharges.  
P260 Do not breathe dust, fume, mist, vapors or spray.  
P264 Wash thoroughly after handling.



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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.

**[Response]**

P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.  
P302+352 IF ON SKIN: Wash with plenty of soap and water.  
P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.  
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+351+338 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, doctor or physician.  
P311 Call a POISON CENTER or doctor, physician.  
P314 Get Medical advice or attention if you feel unwell.  
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P361+364 Take off immediately all contaminated clothing and wash it before reuse.  
P363 Wash contaminated clothing before reuse.  
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

**[Storage]**

P403+233 Store in a well ventilated place. Keep container tightly closed.  
P403+235 Store in a well ventilated place. Keep cool.  
P405 Store locked up.

**[Disposal]**

P501 Dispose of contents or container in accordance with local and national regulations.

**Other hazards**

This product contains no PBT/vPvB/vPvM chemicals.  
This product contains no endocrine disrupting chemicals.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the Organization for Economic Co-operation and Development (OECD) list of Per- and Polyfluoroalkyl Substances (PFASs).

<b>Section 3. Composition/information on ingredients</b>
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This product contains the following substances that present a hazard within the



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meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Triethylamine CAS Number: 121-44-8 Synonyms: No available information	≥ 99.5	Flammable Liquid, category 2;H225 Acute toxicity(inhalation), category 3;H331 Acute toxicity(oral), category 4;H302 Acute toxicity(dermal), category 3;H311 Skin corrosion/irritation category 1;H314 Serious eye damage / eye irritation, category 1;H318 Specific target organ toxicity, repeated exposure category 1;H372	No data available

The actual concentration or concentration range is withheld as a trade secret.

\*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

### Description of first aid measures

- General** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eyes** Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
- Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### Most important symptoms and effects, both acute and delayed

- Overview** No specific symptom data available.  
No chronic toxicity or long-term toxicity information available. Treat symptomatically. See section 2 for further details.
- Inhalation** Toxic if inhaled.
- Eyes** Causes serious eye damage.
- Skin** Toxic in contact with skin. Causes severe skin burns and eye damage.
- Ingestion** Harmful if swallowed.



## Section 5. Fire-fighting measures

### Extinguishing media

Recommended extinguishing media; Use alcohol-resistant foam, powder, carbon dioxide. In case of fire: keep drums, etc., cool by spraying with water.

### Special hazards arising from the substance or mixture

Hazardous decomposition: Highly flammable. Vapor/air mixtures are explosive. The vapor is heavier than air and may travel along the ground, distant ignition possible. Can be released in case of fire: carbon oxides, nitrogen oxides, irritating and toxic fumes and gases.

Keep away from heat, sparks, open flames, and other ignition sources - No smoking.

Keep container tightly closed.

Keep cool.

Ground, bond container and receiving equipment.

Use explosion-proof electrical, ventilating, light, equipment.

Use only non-sparking tools.

Take action to prevent static discharges.

Do not breathe dust, fume, mist, vapors or spray.

### Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

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## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Ensure adequate ventilation. Beware of vapours accumulating to form explosive



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concentrations. Vapors can accumulate in low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.

### **Methods and material for containment and cleaning up**

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

## **Section 7. Handling and storage**

### **Precautions for safe handling**

Avoid contact with skin, eyes, mucous membranes and clothing. Do not breathe dust/fume/gas/mist/vapors/spray. In case of insufficient ventilation, wear suitable respiratory equipment.

NO open flames, NO sparks and NO smoking. Closed system, ventilation, explosion-proof electrical equipment and lighting.

See section 2 for further details. - [Prevention]

### **Conditions for safe storage, including any incompatibilities**

Keep in a cool, dry, well-ventilated place. Keep tightly closed until used.

Use of explosion-proof lighting, ventilation facilities. Separated from strong oxidizers, acids, etc. Storage areas should be equipped with emergency treatment equipment and suitable materials for leakage.

Incompatible materials: Any acidic material, ammonia, urea, oxidizable materials and metals such as nickel, copper, tin, aluminum and iron.

See section 2 for further details. - [Storage]

### **Specific end use(s)**

No available information



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**Section 8. Exposure controls / personal protection**

**Control parameters**

**Exposure Limits**

CAS No.	Ingredient	Source	Value
121-44-8	Triethylamine	OSHA	25 ppm, 100 mg/m <sup>3</sup>
		ACGIH	0.5 ppm 1 ppm
		NIOSH	no established RELs

**Exposure controls**

<b>Respiratory</b>	Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.
<b>Eyes</b>	Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
<b>Skin</b>	Chemical resistant clothing such as coveralls/apron and boots should be worn. Chemical impervious gloves required.
<b>Engineering Controls</b>	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
<b>Other Work Practices</b>	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

**Section 9. Physical and chemical properties**

**Information on basic physical and chemical properties**

<b>Physical State</b>	Clear Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Pungent, ammonia
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Odor threshold	No available information
Melting point / freezing point	-114.8 °C
Initial boiling point and boiling range	89.5 °C
Flammability (solid, gas)	Highly flammable
Upper/lower flammability or explosive limits	<b>Lower Explosive Limit:</b> 8.0 % (V/V) <b>Upper Explosive Limit:</b> 1.2 % (V/V)
Flash Point	-11 °C (Closed cup)
Auto-ignition temperature	232 °C -249 °C
Decomposition temperature	No available information
pH	11.9 (1% solution, calculated value)
Viscosity (cSt)	No available information
Solubility in Water	Slightly soluble in water, soluble in most organic solvents such as ethanol, ether and acetone.
Partition coefficient n-octanol/water (Log Kow)	1.45
Vapor pressure (Pa)	7.2 kPa (20 °C)
Relative Density	0.73
Vapor Density	3.5
Evaporation rate (Ether = 1)	No available information
Oxidising properties	No available information
Explosive properties	No available information

**Other information**

No other relevant information.

**Section 10. Stability and reactivity**

**Reactivity**

The substance is a strong base. It reacts violently with acid and is corrosive to aluminum, zinc, copper and their alloys in the presence of moisture. Reacts violently with strong oxidants. This generates fire and explosion hazard. Attacks some forms of plastic, rubber and coatings.

**Chemical stability**

This is a stable chemical under recommended storage conditions.

**Possibility of hazardous reactions**

No available information

**Conditions to avoid**





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Heat, flames and sparks, extreme temperatures and direct sunlight. Static discharge.

**Incompatible materials**

Any acidic material, ammonia, urea, oxidizable materials and metals such as nickel, copper, tin, aluminum and iron.

**Hazardous decomposition products**

May include carbon oxides, nitrogen oxides, irritating and toxic fumes and gases.

**Section 11. Toxicological information**

**Acute toxicity**

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Triethylamine - (121-44-8)	460.00, Rat - Category: 4	570.00, Rabbit - Category: 3	No data available.	No data available.	1,250.00, Rat - Category: 3

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
121-44-8	Triethylamine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	A4

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	3	Toxic in contact with skin.
Acute toxicity (inhalation)	3	Toxic if inhaled.
Skin corrosion/irritation	1	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable



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Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	1	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not Applicable

**Possible routes of entry:** No available information

**Symptoms and effects, both acute and delayed:**

No specific symptom data available.

No chronic toxicity or long-term toxicity information available. Treat symptomatically.

**Eyes** Causes serious eye damage.

**Skin** Toxic in contact with skin. Causes severe skin burns and eye damage.

**Ingestion** Harmful if swallowed.

**Section 12. Ecological information**

**Toxicity**

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Triethylamine - (121-44-8)	No data available.	No data available.	No data available.

**Persistence and degradability**

There is no data available on the preparation itself.

**Bioaccumulative potential**

No available information

**Mobility in soil**

No available information

**Results of PBT and vPvB assessment**

This product contains no PBT/vPvB/vPvM chemicals.

**Other adverse effects**

No available information



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Section 13. Disposal considerations

**Waste treatment methods**

Observe all federal, provincial and local regulations when disposing of this substance.

Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN1296	UN1296	UN1296
UN proper shipping name	Triethylamine,3(8),PG II	Triethylamine	Triethylamine
Transport hazard class(es)	Class:3 Sub Class:8	Class:3 Sub Class:8	Class:3 Sub Class:8
Packing group	II	II	II

**Environmental hazards**

IMDG Marine Pollutant: No;  
**Special precautions for user**

No available information

Section 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

**Toxic Substance Control Act (TSCA)**

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
121-44-8	Triethylamine	Yes		ACTIVE



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The following flags are used:

- Active - indicates commercial status designation of active
- E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.
- F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P - indicates a commenced Premanufacture Notice (PMN) substance.
- R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - indicates a substance that is identified in a final Significant New Uses Rule.
- SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
- T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.
- UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials •XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
- Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.
- Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

Triethylamine

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**Mass RTK Substances (>1%) :**



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**New Jersey RTK Substances (>1%):**

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**Pennsylvania RTK Substances (>1%):**

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**OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA List II or Essential Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US DHS Chemical Facility Anti-Terrorism Standards (CFATS):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 311/312 Chemicals and RQs (lbs):**

Triethylamine ( 5,000.00)



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**Section 16. Other information**

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**DISCLAIMER OF RESPONSIBILITY**

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

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