

SAFETY DATA SHEET

Creation Date 28-Sep-2009

Revision Date 26-Dec-2021

Revision Number 5

1. Identification

Product Name Triethylamine

Cat No. :

Synonyms

CAS No

AC432280000; AC432280010; AC432280025

121-44-8 TETN

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Category 3
Category 3
Category 3
Category 1 A
Category 1
Category 3

Label Elements

Signal Word Danger

Hazard Statements

Highly flammable liquid and vapor Causes severe skin burns and eye damage May cause respiratory irritation Toxic if swallowed, in contact with skin or if inhaled



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion Rinse mouth Do NOT induce vomiting Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/information on Ingredients

Component	CAS No	Weight %
Triethylamine	121-44-8	100

4. First-aid measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects	Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated
Notes to Physician	Treat symptomatically
	5. Fire-fighting measures

Suitable Extinguishing Media	Water mist may be used to cool closed containers. CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	-11 °C / 12.2 °F
Method -	No information available
Autoignition Temperature	215 °C / 419 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	8.0% 1.2% t No information available No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u>

Health	Flammability	Instability	Physical hazards
3	3	0	N/A

	6. Accidental release measures
Personal Precautions Environmental Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.
Methods for Containment and Clear Up	n Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
	7. Handling and Storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Corrosives area. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong reducing agents.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Triethylamine	TWA: 1 ppm	(Vacated) TWA: 10 ppm	IDLH: 200 ppm	TWA: 25 ppm
	STEL: 3 ppm	(Vacated) TWA: 40 mg/m ³		TWA: 100 mg/m ³
	Skin	(Vacated) STEL: 15 ppm		STEL: 40 ppm
		(Vacated) STEL: 60 mg/m ³		STEL: 160 mg/m ³
		TWA: 25 ppm		
		TWA: 100 mg/m ³		

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Ammonia and organic ammonia derivatives filter. Type K. Green. conforming to EN14387.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid	
Appearance Odor Odor Threshold	Colorless Fishy No information available	
pH Melting Point/Range Softening Point	12.4 -115 °C / -175 °F No data available	(10 %)
Boiling Point/Range Flash Point Flammability (liquid) Flammability (solid gas)	90 °C / 194 °F -11 °C / 12.2 °F Highly flammable Not applicable	Method - No information available On basis of test data Liquid
Flammability (solid,gas) Explosion Limits Autoignition Temperature	Lower 1.2 vol% Upper 8.8 vol% 215 °C / 419 °F	Liquid
Decomposition Temperature Water Solubility Solubility in other solvents	No data available 133 g/L (20°C) No information available	
Partition Coefficient (n-octanol/wat Component		
Triethylamine Vapor Pressure Density / Specific Gravity	1.45 69 mbar @ 20 °C 0.728	
Bulk Density Vapor Density Viscosity Particle characteristics	Not applicable 3.5 0.36 mPa.s @ 20 °C Not applicable (liquid)	Liquid (Air = 1.0)
Molecular Formula Molecular Weight Explosive Properties Evaporation Rate	C6 H15 N 101.19 Vapors may form explosive mixtures 5.6 - (Butyl Acetate = 1.0)	with air

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong reducing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Information on expected route of exposure

Inhalation May be harmful if swallowed. Ingestion May be harmful if swallowed. Eyes Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including blindness. Skin Avoid contact with skin. Causes burns. Harmful in contact with skin. Acute Toxicity. Product Information Component Information Component Information No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure. Irritation Causes severe burns by all exposure routes Sensitization No information available Component CAS No Information available Component CAS No Information available Component CAS No Information available Reproductive Effects No information available Reproductive Effects No information available. Tritatyamine 12:1-44-8 Not listed STOT - single exposure Respiratory system Central nervous system (CNS) STOT - single exposure None known Aspiration hazard No Information available. Symptoms / effects,both acute and Ingestion causes evere sevelling, evere damage to the delicate tissue and danger of perforation inhalation of high vapor concentrations may cause symptoms like headache, diziness, inceases and vomiting: Product is a corrosive mater								
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Other Adverse Effects The toxicological properties have not been fully investigated.	Endocrine Disruptor	Informatio	on	No information ava	ailable			
	Other Adverse Effects The toxicological properties have not been fully investigated.					gated.		

12. Ecological information

Ecotoxicity Do not empty into drains. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Freshwater Fish Microtox		
Triethylamine	Not listed	Oryzias latipes: LC50 = 50.7	EC50 = 127 mg/L/2 h	EC50 = 200 mg/L/48h	
		mg/L/48h	EC50 = 95 mg/L/17 h		
Persistence and Degrada	ability Persisten	ce is unlikely			
Bioaccumulation/ Accumulation No information available.					
Mobility	. Will likel	. Will likely be mobile in the environment due to its water solubility.			

Component	log Pow
Triethylamine	1.45

Waste Disposal Methods

13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Triethylamine - 121-44-8	U404	-

	14. Transport information
DOT	
UN-No	UN1296
Proper Shipping Name	TRIETHYLAMINE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	II
TDG	
UN-No	UN1296
Proper Shipping Name	TRIETHYLAMINE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	II
IATA	
UN-No	UN1296
Proper Shipping Name	TRIETHYLAMINE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN1296
Proper Shipping Name	TRIETHYLAMINE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	II

15. Regulatory Information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Triethylamine	121-44-8	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Triethylamine	121-44-8	Х	-	204-469-4	Х	Х	Х	Х	Х	Х

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Triethylamine	121-44-8	100	1.0	-

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Triethylamine	X	5000 lb	-	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Triethylamine	Х		-

OSHA - Occupational Safety and Not applicable Health Administration

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Triethylamine	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Triethylamine	Х	Х	Х	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Υ
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade

Serious risk, Grade 3

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Triethylamine	121-44-8	-	Use restricted. See entry 75. (see link for restriction details)	-

REACH links

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Triethylamine	121-44-8	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
L	Triethylamine	121-44-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other Information				
Prepared By	Regulatory Affairs			
	Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
Creation Date	28-Sep-2009			
Revision Date	26-Dec-2021			
Print Date	26-Dec-2021			
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

Disclaimer

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End of SDS