



Material Safety Data Sheet

PROTECTIVE CLOTHING HAZARD WARNINGS RISK PHRASES Flammable material; avoid heat and sources of ignition. Corrosive to eyes and skin on contact.

Section I. Chemical Product and Company Identification				
Chemical Name	Trifluoroacetic Acid Ethyl Ester			
Catalog Number	T0432	Supplier	TCI America 9211 N. Harborgate St.	
Synonym	Ethyl Trifluoroacetate		Portland OR 1-800-423-8616	
Chemical Formula	CF₃COOC₂H₅		Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)	
CAS Number	383-63-1	In case of Emergency		
		Call		

Section II. Composition and Information on Ingredients					
Chemica	ıl Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Trifluoroacetic Acid Ethyl Ester		383-63-1	Min. 99.0 (GC)	Not available.	Not available.

Section III. Hazards Identification

Acute Health Effects Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucous

membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

CARCINOGENIC EFFECTS: Not available. Chronic Health Effects

MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**Not available.

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial

Section IV. First Aid Measures

Eye Contact Check for and remove any contact lenses. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Treat symptomatically and

Skin Contact If the chemical gets spilled on a clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Seek medical attention. Treat symptomatically

and supportively. Wash any contaminated clothing before reusing.

Inhalation Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If

breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and

supportively.

DO NOT induce vomiting. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, Ingestion administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible

indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

Section V.	Fire and Explosion L	Data			
Flammability	Flammable.	Auto-Ignition 1	Not available.		
Flash Points	-1.1°C (30°F).	Flammable Limits	Not available.		
Combustion Products	These products are toxic ca	These products are toxic carbon oxides (CO, CO ₂), halogenated compounds.			
Fire Hazards	No specific information is av	No specific information is available regarding the flammability of this compound in the presence of various materials.			
Continued o	n Next Page	Emergency phone numb	ber (800) 424-9300		

Explosion Hazards

Explosion Hazards

Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
No additional information is available regarding the risks of explosion.

Fire Fighting Media and Instructions

Flammable liquid.
SMALL FIRE: Use DRY chemicals, CO₂, alcohol foam or water spray.
LARGE FIRE: Use alcohol foam, water spray or fog.

Section VI. Accidental Release Measures

Spill Cleanup Instructions Flammable liquid. Corrosive liquid.

Keep away from heat and sources of ignition. Mechanical exhaust required. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information FLAMMABLE. CORROSIVE. Keep container dry. Do not breathe gas, fumes, vapor or spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Treat symptomatically and supportively. Avoid contact with skin and eyes. Always store away from incompatible compounds such as oxidizing agents, acids, alkalis (bases).

Section VIII. Exposure Controls/Personal Protection

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

Personal Protection

Face shield. Lab coat. Vapor respirator. Boots. Gloves. A MSHA/NIOSH approved respirator should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.



Exposure Limits Not available

Section IX. Physical and Chemical Properties						
Physical state @ 20°C	Colorless liquid.	Solubility	Not available.			
Specific Gravity	1.19					
Molecular Weight	142.08	Partition Coefficient	Not available.			
Boiling Point	60 to 62°C	Vapor Pressure	Not available.			
Melting Point	Not available.	Vapor Density	Not available.			
Refractive Index	Not available.	Volatility	Not available.			
Critical Temperature	Not available.	Odor	Not available.			
Viscosity	Not available.	Taste	Not available.			

Section X. Stability and Reactivity Data

Stability This material is stable if stored under proper conditions. (See Section VII for instructions)

Conditions of Instability Avoid excessive heat and light.

Incompatibilities Reactive with strong oxidizing agents, strong acids, strong alkalis (bases).

Section XI. Toxicological Information

RTECS Number Not available.

Routes of Exposure Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data Not available.

Chronic Toxic Effects CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITYNot available.

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Acute Toxic Effects

Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucous membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

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Emergency phone number (800) 424-9300

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Section XII.

Ecological Information

Ecotoxicity

Not available.

Environmental Fate

Not available.

Section XIII.

Disposal Considerations

Waste Disposal

Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of this substance.

Section XIV. Transport Information

DOT Classification

DOT CLASS 3: Flammable liquid.

DOT CLASS 8: Corrosive.

PIN Number

UN2924

Proper Shipping Name

Flammable liquid, corrosive, n.o.s.

Packing Group (PG)

П

DOT Pictograms





Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory

This product is **ON** the EPA Toxic Substances Control Act (TSCA) inventory.

(EPA)

WHMIS Classification

WHMIS CLASS B-2: Flammable liquid with a flash point lower than 35°C (100°F).

(Canada)

WHMIS CLASS E: Corrosive liquid.

EINECS Number (EEC)

206-851-6

EEC Risk Statements

R10- Flammable.

R18- In use, may form flammable/explosive vapor-air mixture.

R34- Causes burns

Japanese Regulatory Data

Not available.

Section XVI. Other Information

Version 1.0

Validated on 9/4/1998.

Printed 3/11/2005.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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