

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code 28901
Product name Trifluoroacetic Acid, Sequanal Grade (TFA), 500 ml

Company/undertaking identification

Life Technologies Corporation
5781 Van Allen Way
PO Box 6482
Carlsbad, CA 92008
+1 760 603 7200

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

Thermo Fisher Scientific
Pierce Biotechnology
P.O. Box 117
Rockford, IL 61105
United States
1.815.968.0747 or
1.800.874.3723

24 hour Emergency Response: 866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

Country specific Emergency Number (if available):
CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

Use as laboratory reagent. Scientific research and development.

SECTION 2: Hazards identification

GHS - Classification

Signal Word
DANGER



Health hazards

Acute Inhalation Toxicity - Vapors	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

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Physical hazards

Not Hazardous

Hazard Statements

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P273 - Avoid release to the environment

P311 - Call a POISON CENTER or doctor

P310 - Immediately call a POISON CENTER or doctor/physician

Principle Routes of Exposure

Potential Health Effects

eyes	Causes burns.
Skin	Causes burns.
inhalation	Toxic by inhalation.
Ingestion	May be harmful if swallowed.

Specific effects

Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

Target Organ Effects None under normal use conditions.

HMIS

Health	4
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Trifluoroacetic acid 76-05-1 (98-100)	76-05-1	200-929-3	98-100

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Skin contact

Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is

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required.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Ingestion Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

H314 - Causes severe skin burns and eye damage, H331 - Toxic if inhaled, H412 - Harmful to aquatic life with long lasting effects

Notes to Physician Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.

Specific hazards arising from the chemical Not known

SECTION 6: Accidental release measures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.

Methods for cleaning up Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

Storage Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

SECTION 8: Exposure controls/personal protection

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Trifluoroacetic acid	None	None	None	None

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Impervious gloves.
Eye protection Goggles.

**Skin and Body Protection
Hygiene measures**

Lightweight protective clothing.
Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure
controls**

Prevent product from entering drains. Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties

General information

Form	Liquid	
Appearance	No information available	
Odor	odorless	
Odor Threshold	Mixture has not been tested	
Boiling point / boiling range	°C No data available	°F No data available
Melting point / melting range	°C No data available	°F No data available
flash point	°C No data available	°F No data available
Autoignition Temperature	°C No data available	°F No data available
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Oxidizing properties	Mixture has not been tested	
Water solubility	soluble	
Upper explosion limit	No data available	
Lower explosion limit	No data available	
Partition coefficient: n-octanol/water	No data available	
Vapor Pressure	No data available	
vapor density	No data available	
Viscosity	Mixture has not been tested	
pH value	No data available	

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	No information available.
Possibility of hazardous reactions	Hazardous reaction has not been reported
Hazardous decomposition products	None under normal use conditions. No known hazardous decomposition products.
polymerization	None under normal processing.
Conditions to avoid	None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Trifluoroacetic acid	No data available	No data available	No data available

Principle Routes of Exposure**Potential Health Effects**

eyes	Causes burns.
Skin	Causes burns.
inhalation	Toxic by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.
Target Organ Effects	None under normal use conditions

SECTION 12: Ecological information

Ecotoxicity	Hazardous to the Aquatic Environment.
Chronic aquatic toxicity	Category 3.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information**IATA**

Proper Shipping Name	TRIFLUOROACETIC ACID
Hazard Class	8
Subsidiary class	None
Packing group	I
UN-No	2699
Environmental hazards	No

SECTION 15: Regulatory information

Component	US TSCA
Trifluoroacetic acid 76-05-1 (98-100)	Listed

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

D1B - Toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision

SDS sections updated.

Use as laboratory reagent. Scientific research and development.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet

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