



MATERIAL SAFETY DATA SHEET

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Trifluoroacetic Acid
24050

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Trifluoroacetic Acid
Catalog Numbers:
T112
Synonyms:
Company Identification:
LEONID CHEMICALS
62/A-2 2nd Stage, Industrial Suburb
Yeshwanthpur, Bangalore -22, INDIA
Ph- +91-80-23378354

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	76-05-1
Chemical Name	:	TRIFLUOROACETIC ACID
%	:	
EINECS#	:	200-929-3
Hazard Symbols	:	C
Risk Phrases	:	35 20

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Causes severe burns. Harmful by inhalation.

Potential Health Effects

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

SECTION 4 - FIRST AID MEASURES

Eyes:
Not available.
Skin:
Not available.
Ingestion:



Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Not available.

Notes to Physician:

SECTION 5 - FIRE FIGHTING MEASURES

General Information:

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

Extinguishing Media:

Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

SECTION 7 - HANDLING and STORAGE

Handling:

Not available.

Storage:

Not available.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes:

Wear safety glasses and chemical goggles if splashing is possible.

Skin:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing:

Not available.

Respirators:

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the

positive pressure mode with emergency escape provisions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Colourless, fuming liquid. Hygroscopic
Odor: Pungent odor.
pH: Strong acid
Vapor Pressure: 107 mm Hg
Viscosity: 0.813 cP 25 deg C
Boiling Point: 72 deg C
Freezing/Melting Point: -15.3 deg C
Autoignition Temperature: Not available.
Flash Point: Not available.
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature: Not available.
Solubility in water: Soluble in water.
Specific Gravity/Density: 1.4800
Molecular Formula: F₃CCOOH
Molecular Weight: 114.001

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Not available.
Incompatibilities with Other Materials:
Bases - oxidizing agents - reducing agents.
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide, hydrogen fluoride gas.
Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 76-05-1: AJ9625000
LD50/LC50:
CAS# 76-05-1: Inhalation, mouse: LC50 = 13500 mg/m³; Inhalation, rat: LC50 = 10 gm/m³.
Carcinogenicity:
TRIFLUOROACETIC ACID -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

SECTION 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name: TRIFLUOROACETIC ACID
Hazard Class: 8
UN Number: 2699
Packing Group: I

IMO

Shipping Name: TRIFLUOROACETIC ACID
Hazard Class: 8
UN Number: 2699
Packing Group: I

RID/ADR

Shipping Name: TRIFLUOROACETIC ACID
Hazard Class: 8
UN Number: 2699
Packing group: I

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 20 Harmful by inhalation.
R 35 Causes severe burns.

Safety Phrases:

S 9 Keep container in a well-ventilated place.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 27 Take off immediately all contaminated clothing.
S 28A After contact with skin, wash immediately with plenty of water.

WGK (Water Danger/Protection)

CAS# 76-05-1: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 76-05-1 is listed on Canada's DSL List.

CAS# 76-05-1 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 76-05-1 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 2/18/1995 Revision #0 Date: Original.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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