



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No.: T 21571
Product Name: **TRIFLUORO ACETIC ACID 99%**

Manufacturer / supplier identification

Company : NICE CHEMICALS PVT.LTD. , Cochin , India
Tel - 0484 2800212 , 2802755
Contact for Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 76-05-1 EC –No. 200-929-3
Molar mass : 114.02 g/mol Molecular formula : C₂HF₃O₂

3. HAZARDS IDENTIFICATION :

Harmful by inhalation. Causes severe burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

After inhalation : Fresh air. Summon doctor.
After skin contact : wash off with plenty of water. Dab with polyethylene glycol 400.
Immediately remove contaminated clothing. Call in physician.
After eye contact : Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call in ophthalmologist.
After swallowing : Make victim drink plenty of water, avoid vomiting, summon doctor. Do not attempt to neutralize

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood.

Special risks : Non-combustible. Ambient fire may liberate hazardous vapours. The following may develop in event of fire : Hydrogen fluoride.

Special protective equipment for fire fighting : Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Other information : Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or ground water

6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning/absorption : Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

Person-related precautionary measures : Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.



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Environmental-protection measures : Do not allow to enter sewerage system.

7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : At +15⁰C to +25⁰C. Tightly closed. Dry. In a well-ventilated place.

Requirements for storage rooms and containers : No metal containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment :

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection : required when vapours/aerosols are generated.

Eye protection : required

Hand protection : required

Other protective equipment : Suitable protective clothing.

Industrial hygiene : Immediately change contaminated clothing. Application of skin-protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	colourless
Odour	:	pungent
PH value at 50 g/l H ₂ O (20 ⁰ C)	:	Not available
Viscosity dynamic (20 ⁰ C)	:	0.91 mPas
Melting temperature	:	- 15 ⁰ C
Boiling temperature	:	72 ⁰ C
Ignition temperature	:	Not available
Flash point	:	Not available
Explosion limits	Lower :	Not available
	Upper :	Not available
Vapour pressure (20 ⁰ C)	:	11 hPa
Density (20 ⁰ C)	:	1.48 g/ cm ³
Solubility in water(20 ⁰ C)	:	freely soluble

10. STABILITY AND REACTIVITY

Conditions to be avoided : Strong heating.

Substance to be avoided : metals, alkalis.

Hazardous decomposition products : In the event of fire : see chapter 5.

Further information : Hygroscopic, heat-sensitive : unsuitable working materials :
rubber, metals.



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11. TOXICOLOGICAL INFORMATION:

Acute toxicity : LD₅₀ (inhalation, rat) : 10 mg/l/4h.

Further toxicological information :

After inhalation : When vapours/aerosols are generated : mucosal irritations. Inhalation may lead to the formation of oedemas in the respiratory tract.

After skin contact : burns, necrosis,. Causes poorly healing wounds.

After eye contact : Burns. Risk of blindness.

After swallowing : nausea, vomiting, strong pain (risk of perforation). Systemic effects : collapse. Damage of kidneys.

Further data : The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION:

Biologic degradation : biologically non-degradable.

Ecotoxic effects : Daphnia toxicity : Daphnia magna EC₅₀ : 55 mg/l/24h.

Biological effects : Harmful effect on aquatic organisms. Harmful effect due to pH shift. Caustic even in diluted form. Hazard for drinking water supplies.

Further ecological data: May cause long-term adverse effects in the aquatic environment.
Do not allow to enter waters, waste water or soil!

13. DISPOSAL METHOD :

Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC Member countries through that you corresponding laws and regulations. We recommend contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging :

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION :

Land transport : GGVS, GGVE, ADR,RID
Classification : 8/32a
Name : 2699 TRIFLUORO ACETIC ACID

Transport by river : ADN, ADNR
Classification : Not tested



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Transport by sea : IMDG, GGVsee
Classification : 8 /UN 2699/PG I
Ems : 8- 05
MFAG : 750
Name : TRIFLUORO ACETIC ACID

Transport by air : ICAO, IATA
Classification : 8 /UN 2699 / PG I
Name : TRIFLUOR ACETIC ACID

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : C Corrosive

R-phrases : 20-35-52/53 Harmful by inhalation. Causes severe burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : 9-26-27-28-45-61 Keep container in a well-ventilated place. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. After contact with skin \, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instructions/ safety data sheets.

EC No. : 200-929-3 EC label.

16. OTHER INFORMATION

Change in labelling. Change in the chapter on ecology. General update

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
