



SAFETY DATA SHEET
TRIFLUOROACETIC ACID...100%

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: TRIFLUOROACETIC ACID...100%
CAS number: 76-05-1
EINECS number: 200-929-3
Index number: 607-091-00-1
Company name: Chemical Raw Materials Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Severe burns may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage. There may be severe pain.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be congestion of the lungs causing severe shortness of breath.

4. FIRST AID MEASURES (ACTION)

Skin contact: Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Affected Skin must be treated as 3rd Degree Burn, appearance may not indicate the severity of Skin damage. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. give Water and Milk of Magnesia to drink. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. Consult a doctor.

[cont...]

5. FIRE-FIGHTING MEASURES

Extinguishing media: Alcohol or polymer foam. Dry chemical powder. Carbon dioxide.

Exposure hazards: Corrosive. In combustion emits toxic fumes of hydrogen fluoride.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. If outside keep bystanders upwind and away from danger point.

Environmental precautions: Contain the spillage using bunding.

Clean-up procedures: Cover the spillage with Sodium Carbonate or similar powdered alkali, once neutralised the Trifluoroacetate ion is non toxic, however it is only very slowly biodegradable

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Do not handle in a confined space.

Storage conditions: Store in cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging. Glass.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Gas/vapour filter, type E: sulphur dioxide and other acid gases (EN141).

Hand protection: Viton gloves. Nitrile gloves.

Eye protection: Face-shield.

Skin protection: Acid-resistant protective clothing. Boots made of PVC. Ensure safety shower is to hand.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Choking

Evaporation rate: Slow

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Highly soluble

Viscosity: Non-viscous

Boiling point/range°C: 72

Melting point/range°C: -15

Flammability limits %: lower: none

upper: none

Flash point°C: none
 Part.coeff. n-octanol/water: n/a
 Autoflammability°C: none
 Vapour pressure: 107mm @ 25°C
 Relative density: 1.484
 pH: >1

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Materials to avoid: Water. Bases. Amines. Alkalis.
Haz. decomp. products: In combustion emits toxic fumes of hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: TRIFLUOROACETIC ACID...100%
 IPR MUS LDLO 150 mg/kg
 IVN MUS LD50 1200 mg/kg
 ORL RAT LDLO 500 mg/kg
Chronic toxicity: Danger of very serious irreversible effects through inhalation. Danger of very serious irreversible effects in contact with skin. Danger of very serious irreversible effects if swallowed.
Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.
Persistence and degradability: Only slightly biodegradable.
Bioaccumulative potential: Bioaccumulation potential.
Other adverse effects: Strong Acid, may cause damage to the Aquatic environment through pH effects

13. DISPOSAL CONSIDERATIONS

Disposal operations: Neutralise with Sodium Bicarbonate solution prior to disposal.
Disposal of packaging: Clean with water. Treat the cleaning water following the above method for waste product. May be reused following decontamination.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 2699	ADR Class: 8
Packing group: I	Classification code: C3
Shipping name: TRIFLUOROACETIC ACID	

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TRIFLUOROACETIC ACID...100%

Labelling: 8

Hazard ID no: 88



IMDG / IMO

UN no: 2699	Class: 8
Packing group: I	EmS: 8-05
Marine pollutant: NO	Labelling: 8

IATA / ICAO

UN no: 2699	Class: 8
Packing group: I	Packing instructions: 807(P&CA); 809(PAO)
Labelling: 8	

15. REGULATORY INFORMATION

Hazard symbols: Corrosive.



Risk phrases: R35: Causes severe burns.
R20: Harmful by inhalation.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S9: Keep container in a well-ventilated place.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27: Take off immediately all contaminated clothing.
S28: After contact with skin, wash immediately with plenty of water
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: in accordance with CHIP3, (E67/548/EEC atp 28)

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.