



SAFETY DATA SHEET
TRIFLUOROETHANOL

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Revision No: 1

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

Product name: TRIFLUOROETHANOL
CAS number: 75-89-8
EINECS number: 200-913-6
Product code: TFE
Synonyms: 2,2,2 TRIFLUOROETHANOL
Company name: Chemical Raw Materials Ltd
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UK
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2. COMPOSITION / INFORMATION ON INGREDIENTS

3. HAZARDS IDENTIFICATION

Main hazards: Flammable. Harmful by inhalation and if swallowed.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: The eyes may water profusely.
Ingestion: There may be vomiting.
Inhalation: Drowsiness or mental confusion may occur.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Subhypnotic doses of Ethanol are antidotal to Trifluoroethanol poisoning.
Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water. Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Water fog.

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

Protection of fire-fighters: Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details.

Environmental precautions: Contain the spillage using bunding. Do not discharge into drains or rivers.

[cont...]

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Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area.

Storage conditions: Store in cool, well ventilated area. Keep away from sources of ignition.

Suitable packaging: Steel drums. Polyethylene.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Occupational exposure limits**

TWA (8 hr exposure limit): 5ppm recommended (OES)

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

Respiratory protection: Gas/vapour filter, type A: organic vapours (EN141).

Hand protection: Nitrile gloves. Viton gloves. Gloves (solvent-resistant).

Eye protection: Safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Alcoholic

Evaporation rate: Moderate

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Highly soluble

Also soluble in: Most organic solvents.

Viscosity: Non-viscous

Boiling point/range°C: 74

Melting point/range°C: -45

Inflammability limits %: lower: 5.5

upper: 42

Flash point°C: 30

Autoflammability°C: n/a

Vapour pressure: 65mm Hg @ 65°C

Relative density: 1.3823

pH: n/a

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Materials to avoid: Strong bases.

Haz. decomp. products: In combustion emits toxic fumes of hydrogen fluoride.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity: TRIFLUOROETHANOL
 IHL RAT LC50 4600ppm
 ORL RAT LD50 LD50 mg/kg
 SKN RAT LD50 1680 mg/kg

12. ECOLOGICAL INFORMATION

Mobility: Volatile.
 Persistence and degradability: Only slightly biodegradable.
 Bioaccumulative potential: No data available.
 Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.
 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: | 1987 | ADR Class: | 3 |
| Packing group: | II | Classification code: | F1 |
| Shipping name: | ALCOHOLS, N.O.S. FLASH POINT 30°C (TRIFLUOROETHANOL) | | |
| Labelling: | 3 | Hazard ID no: | 33 |



IMDG / IMO

| | | | |
|-------------------|------|------------|------|
| UN no: | 1987 | Class: | 3 |
| Packing group: | II | EmS: | 3-06 |
| Marine pollutant: | . | Labelling: | 3 |

IATA / ICAO

| | | | |
|----------------|------|-----------------------|---------------------|
| UN no: | 1987 | Class: | 3 |
| Packing group: | II | Packing instructions: | 305(P&CA); 307(PAO) |
| Labelling: | 3 | | |

15. REGULATORY INFORMATION

Hazard symbols: Harmful.



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Risk phrases: R10: Flammable.
R20/22: Harmful by inhalation and if swallowed.

Safety phrases: S23: Do not breathe vapour, mist or spray
S16: Keep away from sources of ignition - No smoking.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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.