

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

Catalogue Number	CS-ZH-27492
Product Name	Trichlorofluoromethane
CAS No.	75-69-4
Category	Fine Chemicals
Synonyms	Not available
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email sales@clearsynth.com for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H312	Harmful in contact with skin.
H420	Not available
H335	Not available
H336	Not available

H361	Not available
H370	Not available

Precautionary Statement(s)

Code	Statement
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P317	Not available
P321	Specific treatment (see ... on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P502	Not available
P203	Not available
P260	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Not available
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P316	Not available
P318	Not available
P319	Get medical help if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Trichlorofluoromethane

CAS Number : 75-69-4

Molecular Formula : CCl₃F or CFCI₃

Molecular Weight : 137.36 g/mol

Parent Chemical : Not available

Synonyms : Not available
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

- General advice: Remove person from exposure. Show this SDS to medical personnel. Treat symptomatically.
- Inhalation: Move to fresh air. Keep at rest. If breathing is difficult, seek medical attention.
- Skin contact: Remove contaminated clothing. Rinse skin with water/shower.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
- Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Not available.

4.3 Indication of any immediate medical attention and special treatment needed

- Not available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing media: Use extinguishing measures appropriate to surrounding fire.
- Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

- Not available.

5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool containers with water spray if exposed to fire.
- Avoid inhalation of combustion/decomposition products.

Additional information

- Not available.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Evacuate unnecessary personnel.
- Ensure adequate ventilation.
- Avoid breathing vapors/mist. Avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so.

- Avoid release to the environment. Prevent entry into drains, surface water, or soil.

6.3 Methods and material for containment and cleaning up

- Contain spill. Collect and place in suitable, properly labeled containers for disposal.
- Use non-sparking tools where applicable.

6.4 Reference to other sections

- See Section 8 for personal protective equipment and Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- Use only with adequate ventilation.
- Avoid breathing vapors/mist. Avoid contact with skin, eyes, and clothing.
- Keep away from incompatible materials.

7.2 Conditions for safe storage, including any incompatibilities

- Store in tightly closed container in a cool, dry, well-ventilated place.
- Protect from physical damage.
- Incompatibilities: Not available.

7.3 Specific end use(s)

- Fine chemical. Specific uses: Not available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Occupational exposure limits: Not available.
- Biological limit values: Not available.

8.2 Exposure controls

- Engineering controls: Provide adequate ventilation. Use local exhaust where appropriate.

Personal protective equipment (PPE)

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Wear suitable protective gloves. Wear protective clothing as needed.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection.
- Hygiene measures: Wash hands after handling. Do not eat, drink, or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available

Test	Result
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

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10.1 Reactivity

- Not available.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- Not available.

10.4 Conditions to avoid

- Not available.

10.5 Incompatible materials

- Not available.

10.6 Hazardous decomposition products

- Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: LC50 (rat) = 130,000 ppm/15 min
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: Inadequate information to assess carcinogenic potential A4: Not classifiable as a human carcinogen.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure

- /HUMAN EXPOSURE STUDIES/ Freon 11, inhaled at 5% concentration, sensitizes the myocardium to epinephrine. A 6% concentration results in apnea and areflexia. A 10% concentration produces cardiac arrhythmias. Deaths resulting from cardiovascular collapse after arrhythmias have been reported after inhalation.

Symptoms related to the physical, chemical and toxicological characteristics

- /HUMAN EXPOSURE STUDIES/ Effects of chlorofluorocarbons on bronchiolar tone in asthmatic children /were studied/. Forced expiratory volume, a measure of bronchial tone, was measured in 18 children with a history of asthma, before and after inhaling aerosols of the B2-receptor agonist, fenoterol, or a mixture of CFC-11, CFC-12, and CFC-114, and in the absence of treatment. The levels of exposure were not reported. Exposure to the chlorofluorocarbon mixture significantly reduced forced expiratory volume for 2 hr, relative to no treatment, and for 8 hr relative to exposure to fenoterol (containing CFC-11 and CFC-12). The results suggest that chlorofluorocarbons can decrease bronchial tone in asthmatic patients, but that this effect is transient and of a sufficiently small magnitude to be superseded by the dilating effects of fenoterol when both fenoterol and chlorofluorocarbon propellants are inhaled together.

SECTION 12: Ecological information

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12.1 Toxicity

- Not available.

12.2 Persistence and degradability

- Not available.

12.3 Bioaccumulative potential

- Not available.

12.4 Mobility in soil

- Not available.

12.5 Results of PBT and vPvB assessment

- Not available.

12.6 Endocrine disrupting properties

- Not available.

12.7 Other adverse effects

- Not available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to drains or the environment.
- Contaminated packaging: Dispose of as unused product unless adequately cleaned.

Waste code

- Not available.

SECTION 14: Transport information

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- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Not available.

Transport in bulk according to IMO instruments

- Not available.

SECTION 15: Regulatory information

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Not available.

15.2 Chemical safety assessment

- Not available.

SECTION 16: Other information

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Product identification

- Product name: Trichlorofluoromethane
- CAS No.: 75-69-4
- Catalog No.: CS-ZH-27492
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

Revision information

- Revision date: Not available.
- Version: Not available.

Disclaimer

- The information provided in this SDS is based on data believed to be accurate; it is provided without warranty. The user is responsible for determining suitability for their particular use and for compliance with applicable laws and regulations.

DISCLAIMER

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