

## **MATERIAL SAFETY DATA SHEET**

### **TRIFLUOROACETIC ACID (Extra Pure) MSDS CAS : 76-05-1**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name : TRIFLUOROACETIC ACID**

**CAS#: 76-05-1**

**C.I. No.: Not available.**

**Synonym : Not available.**

**Chemical Name: Not available.**

**Chemical Formula: C<sub>2</sub>HF<sub>3</sub>O<sub>2</sub>**

**Brand: OXFORD**

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification: OXFORD LAB FINE CHEM LLP**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
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Tel: 91-250-2390989  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
TRIFLUOROACETIC ACID	76-05-1	100%

## Section 3: Hazards Identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1999/45

**Classification** : Xn; R20  
C; R35  
R52-53

#### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

**Health hazards** : Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314  
Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

**Environmental hazards** : Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP : Aquatic Chronic 3) H412

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## Section 4: First Aid Measures

### Description of first aid measures

#### **Inhalation**

Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.

#### **Skin contact**

Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Specific treatment (see on this label). Wash contaminated clothing before reuse.

#### **Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

#### **Ingestion :**

Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

## Section 4: First Aid Measures (Continued)

### Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Danger of serious damage to health by prolonged exposure through inhalation. Causes severe skin burns and eye damage.

### Indication of any immediate medical attention and special treatment needed

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## Section 5: Fire and Explosion Data

### Extinguishing media

#### Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.  
Surrounding fires : Use water spray or fog for cooling exposed containers.

#### Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.  
Thermal decomposition generates : Corrosive vapours.

#### Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment,  
Including respiratory protection.

#### Special procedures

: Exercise caution when fighting any chemical fire. Avoid (reject)  
Fire-fighting water to enter environment.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.  
Ventilate area.  
For non-emergency personnel : Evacuate unnecessary personnel.

## Section 6: Accidental Release Measures (Continued)

### Environmental precautions

#### Environmental precautions

- : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
- Avoid release to the environment.

### Methods and materials for containment and cleaning up

**Clean up methods :** On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

## Section 7: Handling and Storage

### Precautions for safe handling

#### Handling

- : Use only outdoors or in a well-ventilated area. Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

#### Technical protective measures

- : Provide good ventilation in process area to prevent formation of Vapor.

### Conditions for safe storage, including any incompatibilities

#### Storage

- : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

#### Storage regulation

- : Comply with applicable regulations.

#### Storage - away from

- : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

#### Specific end uses

#### Specific end use(s)

- : None.

## Section 8: Exposure Controls/Personal Protection

### Personal protection

- Respiratory protection
- Hand protection
- Skin protection

- : Avoid all unnecessary exposure.
- : In case of insufficient ventilation, wear suitable respiratory equipment.
- : Wear protective gloves.
- : Wear suitable protective clothing.

## Section 8: Exposure Controls/Personal Protection (Continued)

- Eye protection : Chemical goggles or safety glasses.
  - Others : When using, do not eat, drink or smoke.
- Control parameters
- Occupational Exposure Limits : No data available.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Color	: Clear Colourless
Odor	: Strong pungent odour
Odor threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: -15,4°C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 72.4 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 130 hPa at 20°C
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: 1,489
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Miscible in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: Acidic.

## Section 9: Physical and Chemical Properties (Continued)

Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A
Molecular Weight	: 114.02
<b><u>Other information</u></b>	
Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidizing properties	: No data available.

## Section 10: Stability and Reactivity Data

### Reactivity

Reactivity : Not established.

### Chemical stability

Chemical stability : Stable under recommended storage conditions.

### Possibility of hazardous reactions

Hazardous reactions : Not established.

### Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

### Incompatible materials

Materials to avoid : Strong acids. Strong bases.

### Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

## Section 11: Toxicological Information

### Information on toxicological effects

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

## Section 11: Toxicological Information (Continued)

### Acute toxicity

• Inhalation	: Harmful if inhaled.
• Dermal	: Based on available data, the classification criteria are not met.
• Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Causes severe skin burns and eye damage.
Irritation	: Based on available data, the classification criteria are not met.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

### Toxicity

Toxicity information : Harmful to aquatic life with long lasting effects.

### Persistence – degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

### Bio accumulative potential

Bio accumulative potential : Not established.

### Mobility in soil

Mobility in soil : Not established.

### Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### Other adverse effects

Environmental precautions: Avoid release to the environment.

## Section 13: Disposal Considerations

### Waste treatment methods

**General:** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## Section 14: Transport Information

### Land transport (ADR-RID)

Proper shipping name	: TRIFLUOROACETIC ACID
UN N°	: 2699
H.I. nr	: 88
ADR - Class	: 8
Labelling - Transport	: 8 : Corrosive substance.
ADR - Group : I	

### Sea transport (IMDG)

Proper shipping name	: TRIFLUOROACETIC ACID
UN N°	: 2699
IMO-IMDG - Class or division	: 8 : Corrosive substance.
IMO-IMDG - Packing group	: I

### Air transport (ICAO-IATA)

Proper shipping name	: TRIFLUOROACETIC ACID
UN N°	: 2699
IATA - Class or division	: 8 : Corrosive substance.
IATA - Packing group	: I

## Section 15: Other Regulatory Information

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

**Safety, health and environmental:** Ensure all national/local regulations are observed.

**Regulations/legislation specific for  
The substance or mixture**

## **Section 15: Other Regulatory Information (Continued)**

**REACH Restrictions - Annex XVII:** The components of this product are not subject to restrictions.

**REACH Authorization - Annex XIV:** The components of this product are not subject to authorization.

### Chemical Safety Assessment

**Chemical Safety Assessment:** It has not been carried out.

## **Section 16 - Additional Information**

References: Not available.

Other Special Considerations: Not available.

### ***Disclaimer:***

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