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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

TRIFLUOROACETIC ACID 99.5% AR

MSDS CAS : 76-05-1

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name : TRIFLUOROACETIC ACID AR
CAS#: 76-05-1
C.I. No.: Not available.
Synonym : Not available.
Chemical Name: Not available.
Chemical Formula: $C_2HF_3O_2$
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,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
TRIFLUOROACETIC ACID AR	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.**

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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 : **Avoid all unnecessary exposure.**

• Respiratory protection : **In case of insufficient ventilation, wear suitable respiratory equipment.**

• Hand protection : **Wear protective gloves.**

• Skin protection : **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/cm3]	: 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 [mm2/s] : **N/A**
Molecular Weight : **114.02**

Other information
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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