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 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

**MATERIAL SAFETY DATA SHEET (MSDS)**
**TRIFLUOROACETIC ACID HPLC**
**1. Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Trade name : TRIFLUOROACETIC ACID HPLC

Product code : SS0110500500  
 CAS No: 76-05-1

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use : Industrial. For professional use only.

**1.3. Details of the supplier of the safety data sheet**

Company identification SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

**1.4. Emergency telephone number**

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

**2. Hazards identification -DSD**
**2.1. Classification of the substance or mixture**
**Classification EC 67/548 or EC 1999/45**

Classification : Xn; R20  
 C; R35  
 R52-53

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

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

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

**2.2. Label elements**
**Labelling EC 67/548 or EC 1999/45**

Symbol(s)



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## MATERIAL SAFETY DATA SHEET (MSDS)

### TRIFLUOROACETIC ACID HPLC

#### 2. Hazards identification -DSD (continued)

<b>Symbol(s)</b>	: C : Corrosive
<b>R Phrase(s)</b>	: R20 : Harmful by inhalation. R35 : Causes severe burns. R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>S Phrase(s)</b>	: 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 S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible). S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.
<b>Contains</b>	: Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

#### Labelling Regulation EC 1272/2008 (CLP)

#### Hazard pictograms



<b>Signal words</b>	: Danger
<b>Hazard statements</b>	: H314 : Causes severe skin burns and eye damage. H332 : Harmful if inhaled. H412 : Harmful to aquatic life with long lasting effects.

#### Precautionary statements

<b>• Prevention</b>	: P280: Wear protective gloves, protective clothing, eye protection, face protection. P271: Use only outdoors or in a well-ventilated area. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P273: Avoid release to the environment. P264: Wash thoroughly after handling.
<b>• Response</b>	: P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse.
<b>• Storage</b>	: P405: Store locked up.
<b>• Disposal considerations</b>	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
<b>Contains</b>	: Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

#### 2.3. Other hazards

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## MATERIAL SAFETY DATA SHEET (MSDS)

### TRIFLUOROACETIC ACID HPLC

#### 2. Hazards identification -DSD (continued)

**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.

#### 3. Composition/information on ingredients

Substance / Preparation		Preparation.				
Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Pentasodium (carboxylatomethyl) : iminobis(ethylenenitrilo) tetraacetate		7601-90-3	----	----	----	Xn; R20 C; R35 R52-53  Skin Corr. 1A _ H314 Acute Tox. 4 (inhal) _ H332 Aquatic Chronic 3 _ H412

#### 4. First aid measures

##### 4.1. Description of first aid measures

**Inhalation** : Immediately call a POISON CENTER or doctor. Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact** : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor.

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

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

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

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

##### 4.3. 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).

#### 5. Fire-fighting measures

##### 5.1. 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.

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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**TRIFLUOROACETIC ACID HPLC**
**5. Fire-fighting measures (continued)**

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

**5.3. 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.

**6. Accidental release measures**
**6.1. 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.

**6.2. 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.

**6.3. Methods and material 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.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

**Handling** : Wash thoroughly after handling. Avoid contact during pregnancy or while nursing.  
Do not breathe dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**7.2. 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.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**TRIFLUOROACETIC ACID HPLC**
**7. Handling and storage (continued)**

Storage regulation : Comply with applicable regulations.  
 Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

Specific end use(s) : None.

**8. Exposure controls/personal protection**
**8.1. Exposure controls**

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.  
 • Eye protection : Chemical goggles or face shield.  
 • Others : When using, do not eat, drink or smoke.

**8.2. Control parameters**

Occupational Exposure Limits : No data available.

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state at 20 °C : Liquid.  
 Colour : Clear Colorless  
 Odour : Strong pungent odor  
 Odour 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

**MATERIAL SAFETY DATA SHEET (MSDS)**
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**9. Physical and chemical properties (continued)**

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.
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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**10.4. Conditions to avoid**

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
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**10.5. Incompatible materials**

Materials to avoid	: Strong acids. Strong bases.
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**10.6. Hazardous decomposition products**

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.
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**MATERIAL SAFETY DATA SHEET (MSDS)**
**TRIFLUOROACETIC ACID HPLC**
**11. Toxicological information**
**11.1. Information on toxicological effects**

<b>Toxicity information</b>	: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.
<b>Acute toxicity</b>	
• 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.
<b>Corrosion</b>	: Causes severe skin burns and eye damage.
<b>Irritation</b>	: Based on available data, the classification criteria are not met.
<b>Sensitization</b>	: Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	: Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity**

<b>Toxicity information</b>	: Harmful to aquatic life with long lasting effects.
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**12.2. Persistence - degradability**

<b>Persistence - degradability</b>	: May cause long-term adverse effects in the environment.
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**12.3. Bioaccumulative potential**

<b>Bioaccumulative potential</b>	: Not established.
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**12.4. Mobility in soil**

<b>Mobility in soil</b>	: Not established.
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**12.5. Results of PBT and vPvB assessment**

<b>Results of PBT and vPvB assessment</b>	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
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**12.6. Other adverse effects**

<b>Environmental precautions</b>	: Avoid release to the environment.
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**MATERIAL SAFETY DATA SHEET (MSDS)**
**TRIFLUOROACETIC ACID HPLC**
**13. Disposal considerations**
**13.1. 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.

**14. Transport information**
**14.1. 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 - Classification code** : C3  
**ADR - Group** : I  
**ADR - Packing instructions** : P001  
**ADR - Limited Quantity** : 0  
**ADR - Tunnel code**



: E : Passage forbidden through tunnels of category E.

**14.2. Sea transport (IMDG) [English only]**

**Proper shipping name** : TRIFLUOROACETIC ACID  
**UN N°** : 2699  
**IMO-IMDG - Class or division** : 8 : Corrosive substance.  
**IMO-IMDG - Packing group** : I  
**IMO-IMDG - Packing instructions** : P001  
**IMO-IMDG - Limited quantities** : None  
**IMO-IMDG - Marine pollution** : No  
**EMS-Nr** : F-A S-B

**14.3. Air transport (ICAO-IATA) [English only]**



**MATERIAL SAFETY DATA SHEET (MSDS)**
**TRIFLUOROACETIC ACID HPLC**
**14. Transport information (continued)**

Proper shipping name	: TRIFLUOROACETIC ACID
UN N°	: 2699
IATA - Class or division	: 8 : Corrosive substance.
IATA - Packing group	: I
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 850
- Passenger and Cargo - Maximum Quantity/Packing	: 0.5 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 854
- Cargo only - Maximum Quantity/Packing	: 2.5 L
ERG-Nr	: 8N

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII	: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.

**15.2. Chemical Safety Assessment**

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

Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
List of relevant R phrases (heading 3)	: R20 : Harmful by inhalation. R35 : Causes severe burns. R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
List of full text of H-statements in section 3	: H314 : Causes severe skin burns and eye damage. H332 : Harmful if inhaled. H412 : Harmful to aquatic life with long lasting effects.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**TRIFLUOROACETIC ACID HPLC**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**