TRIFLUOROMETHANESULPHONIC ACID FOR SYNTHESIS MSDS



CAS No: 1493-13-6 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

| tifier |
|----------------|
| : Substance |
| : |
| : 216-087-5 |
| : 1493-13-6 |
| : 0349P |
| : CHF3O3S |
| : Triflic Acid |
| |

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

| 1.3. Details of the supplier | of the safety data sheet |
|--|-------------------------------------|
| Labogens Fine Chem Industries 1st Floor , Above Bank of India, Ludhiana Pb. (141007) +91 9316777775, +91 77078557 sales@labogens.com - www.L | 00 |
| 1.4. Emergency telephone | number |
| Emergency number | : +91 7707855700 (9:00am - 6:00 pm) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Acute toxicity (oral). H302

Acute toxicity (oral),H302Category 4H312Acute toxicity (dermal),H312Category 4Skin corrosion/irritation,Kin corrosion/irritation,H314

Full text of classification categories and H statements : see section 16

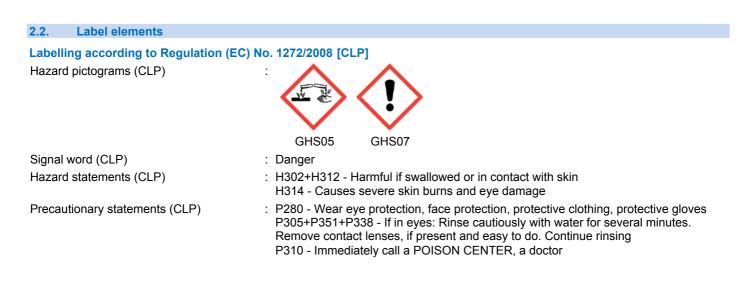
Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

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Adverse physicochemical, human health and environmental effects

No additional information available



2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

| Name | Product identifier | % |
|--|---|-----|
| Trifluoromethanesulphonic acid for Synthesis | (CAS No) 1493-13-6 (EC no) 216-087-5 | 100 |

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

| 4.1. Description of first aid measur | es |
|---------------------------------------|---|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth out with water. If you feel unwell, seek medical advice. |

| 4.2. Most important symptoms and effective statements and effective sta | ffects, both acute and delayed |
|--|--|
| Symptoms/injuries | : Harmful in contact with skin. Causes severe skin burns and eye damage. |
| Symptoms/injuries after ingestion | : Harmful if swallowed. |
| | |
| | ical attention and special treatment needed |
| Treat symptomatically. | |
| SECTION 5: Firefighting measures | |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| | |
| 5.2. Special hazards arising from the | substance or mixture |
| No additional information available | |
| 5.3. Advice for firefighters | |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. |
| | |
| SECTION 6: Accidental release measures | |
| 6.1. Personal precautions, protective | equipment and emergency procedures |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | : Evacuate unnecessary personnel. |
| | |
| 6.1.2. For emergency responders | |
| Protective equipment | : Use personal protective equipment as required. |
| Emergency procedures | : Ventilate area. |
| 6.2. Environmental precautions | |
| Do not allow to enter drains or water courses | 5. |
| | |
| 6.3. Methods and material for contain | |
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as |
| | possible. On land, sweep or shovel into suitable containers. Collect spillage. |
| 6.4. Reference to other sections | |
| No additional information available | |
| SECTION 7: Handling and storage | |
| | |
| 7.1. Precautions for safe handling | |
| - | : Avoid contact with skin and eyes. |
| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using |
| | this product. |
| | |
| 7.2. Conditions for safe storage, inclu | |
| Storage conditions | : Keep container tightly closed. Keep cool. Protect from sunlight. Store in a dry place. |
| 7.2 Specific and use(a) | |
| 7.3. Specific end use(s) No additional information available | |
| | |
| SECTION 8: Exposure controls/personal | |
| 8.1. Control parameters | |
| No additional information available | |

| 8.2. Exposure controls | |
|--|---|
| Hand protection | : protective gloves |
| Eye protection | : Chemical goggles or safety glasses |
| Skin and body protection | : Wear suitable protective clothing |
| Respiratory protection | : Wear respiratory protection |
| SECTION 9: Physical and chemical prop | erties |
| 9.1. Information on basic physical ar Physical state | nd chemical properties : Liquid |
| Colour | : Light yellow. |
| Odour | : Pungent. |
| Odour threshold | : No data available |
| рН | : <1 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : -39.99 °C |
| Boiling point | : 162 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Vapour pressure at 50 °C Relative vapour density at 20 °C | : 8 mm Hg at 25°C : No data available |
| Relative density | : No data available |
| Density Solubility | : 1.696 g/ml at 25°C : Water: Slightly Soluble |
| Log Pow | : -0.49 |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| | |

| Saloty Bala Sheet | |
|--|--|
| | |
| 9.2. Other information No additional information available | |
| | |
| SECTION 10: Stability and reactivity | |
| 10.1. Reactivity | |
| No additional information available | |
| 10.2. Chemical stability | |
| Stable under normal conditions. | |
| | |
| 10.3. Possibility of hazardous reaction | ons |
| No additional information available | |
| 10.4. Conditions to avoid | |
| Moisture. | |
| | |
| 10.5. Incompatible materials | |
| Oxidizing agent. metals. Strong bases. | |
| 10.6. Hazardous decomposition prod | lucts |
| No additional information available | |
| | |
| SECTION 11: Toxicological information | |
| | |
| 11.1. Information on toxicological eff | |
| Acute toxicity | : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. |
| | |
| Skin corrosion/irritation | · Causas source skip burns and ave damage |
| Skin conosion/initation | Causes severe skin burns and eye damage. pH: < 1 |
| Serious eye damage/irritation | : Serious eye damage, category 1, implicit |
| | pH: < 1 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| | |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single | : Not classified |
| exposure) | |
| | |
| Specific target organ toxicity (repeated | : Not classified |
| exposure) | |
| | |
| | |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity No additional information available

| 12.2. Persistence and degradability | |
|---|---|
| No additional information available | |
| | |
| | |
| 12.3. Bioaccumulative potential | |
| Trifluoromethanesulphonic acid for Sy | |
| Log Pow | -0.49 |
| | |
| 12.4. Mobility in soil | |
| No additional information available | |
| | |
| 12.5. Results of PBT and vPvB asses | sment |
| No additional information available | |
| | |
| | |
| 12.6. Other adverse effects | |
| No additional information available | |
| SECTION 13: Disposal considerations | |
| 13.1. Waste treatment methods | |
| No additional information available | |
| | |
| SECTION 14: Transport information | |
| In accordance with ADR / RID / IMDG / IAT | FA / ADN |
| | |
| 14.1. UN number | |
| UN-No. (ADR) | : 3265 |
| UN-No. (IMDG) | : 3265 |
| UN-No.(IATA) | : 3265 |
| UN-No.(ADN) | : Not regulated |
| UN-No. (RID) | : Not regulated |
| | |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (ADR) | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Proper Shipping Name (IMDG) | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Proper Shipping Name (IATA) | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Proper Shipping Name (ADN) | : Not regulated |
| Proper Shipping Name (RID) | : Not regulated |
| Transport document description (ADR) | : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, (E) |
| Transport document description (IMDG) | : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II |
| Transport document description (IATA) | : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II |
| 14.3. Transport hazard class(es) | |
| ADR | |
| | |
| Transport hazard class(es) (ADR) | : 8 |
| Transport hazard class(es) (ADR) Danger labels (ADR) | : 8 : 8 |

| IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG) | : 8 : 8 |
|--|--|
| | |
| ΙΑΤΑ | |
| Transport hazard class(es) (IATA) | : 8 |
| Hazard labels (IATA) | : 8 |
| | |
| | B A A A A A A A A A A A A A A A A A A A |
| ADN | |
| Transport hazard class(es) (ADN) | : Not regulated |
| | |
| RID | |
| Transport hazard class(es) (RID) | : Not regulated |
| 14.4. Packing group | |
| Packing group (ADR) | : 0 |
| Packing group (IMDG) | : 11 |
| Packing group (IATA) | : 11 |
| Packing group (ADN) | : Not regulated |
| Packing group (RID) | : Not regulated |
| 14.5. Environmental hazards | |
| Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |
| | |
| 14.6. Special precautions for user | |
| - Overland transport | |
| Classification code (ADR) | : C3 |
| Special provision (ADR) | : 274 |
| Limited quantities (ADR) | : 1L |
| Excepted quantities (ADR) | : E2 |
| Packing instructions (ADR) | : P001, IBC02 |
| Mixed packing provisions (ADR) | : MP15 |
| Portable tank and bulk container instructions (ADR) | : T11 |

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| , | |
|---|---------------|
| Portable tank and bulk container special provisions (ADR) | : TP2, TP27 |
| Tank code (ADR) | : L4BN |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 2 |
| Hazard identification number (Kemler No.) | : 80 |
| Orange plates | |
| | 80 |
| | 3265 |
| Tunnel restriction code (ADR) | : E |
| EAC code | : 2X |
| APP code | : В |
| - Transport by sea | |
| Special provision (IMDG) | : 274 |
| Limited quantities (IMDG) | : 1L |
| Excepted quantities (IMDG) | : E2 |
| Packing instructions (IMDG) | : P001 |
| IBC packing instructions (IMDG) | : IBC02 |
| Tank instructions (IMDG) | : T11 |
| Tank special provisions (IMDG) | : TP2, TP27 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-B |
| Stowage category (IMDG) | : B |
| Stowage and handling (IMDG) | : SW2 |
| - Air transport | |
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y840 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA) | : 851 |
| PCA max net quantity (IATA) | : 1L |
| CAO packing instructions (IATA) | : 855 |
| CAO max net quantity (IATA) | : 30L |
| Special provision (IATA) | : 30L : A3 |
| ERG code (IATA) | : 8L |
| | . 0L |

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Trifluoromethanesulphonic acid for Synthesis is not on the REACH Candidate List Trifluoromethanesulphonic acid for Synthesis is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

| AwSV/VwVwS Annex reference | : Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 3; WGK No 8190) |
|---|---|
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) |
| Denmark | |
| Recommendations Danish Regulation | : Young people below the age of 18 years are not allowed to use the product |

contact with the product

Pregnant/breastfeeding women working with the product must not be in direct

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
|-----------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Skin Corr. 1 | Skin corrosion/irritation, Category 1 |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product