



TECHNO PHARMCHEM

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

ACETIC ACID MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product form : Substance
CAS-No. : 64-19-7
Prod Code : 30005, 30006, 30010, 42001
Synonyms : Ethanoic acid, Methane carboxylic acid

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

1.2.1. Relevant identified uses

Industrial/professional use spec : Industrial
For professional use only
Use of the substance/mixture : Laboratory Reagent

1.2.2. Uses advised against

No additional information available

1.3. Details of the manufacturer of the safety data sheet

Techno Pharmchem
Plot No.1022, Modern Industrial Estate,
Bahadurgarh-124507, India
info@technopharmchem.com

1.4. Emergency telephone number

Emergency number: +91 11-43464909 (9:30am – 5.30pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008[CLP]

Flammable liquids, H226

Category 3

Skin corrosion/irritation, H314

Category 1, Sub-Category 1A

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes skin burns and eye damage.

2.2. Label elements

Labeling according to regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : Danger

Hazard statements (CLP) : H226 - Flammable liquid and vapour.
H314 – Corrosive Causes eye damage.

Precautionary statements (CLP) : P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a doctor.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name : ACETIC ACID
CAS No : 64-19-7
Full text of R- and H-phrases: see section 16

3.2. Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. Call a physician immediately.

First – aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.

First – aid measures after skin contact : Take off immediately all contaminated clothing. Rinse Skin with water/shower. Immediately call a doctor. Call a physician immediately.

First – aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. Call a physician immediately.

First – aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a doctor. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects : Causes skin burns and eye damage.
Symptoms/injuries after skin contact : Burns.
Symptoms/injuries after eye contact : Causes serious eye damage. Serious damage to eyes.
Symptoms/injuries after ingestion : Burns.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 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.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour.
Explosion hazard : May form flammable/explosive vapour-air mixture.
Hazardous decomposition products : Toxic fumes may be released.
in case of fire

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or



Other information : diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precaution for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe dust, fume, gas, mist, spray, vapours. Avoid contact during pregnancy/while nursing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any compatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use (S)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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 PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Appearance | : | Clear liquid. |
| Molecular mass | : | 60.05 g/mol |
| Colour | : | Colourless. |
| Odour | : | strong, vinegar-like. |
| Odour threshold | : | No data available |
| pH | : | 2.4 (1.0 M solution) |
| Relative evaporation rate (butylacetate=1) | : | 0.97 |
| Melting Point | : | 16.2 °C |
| Freezing point | : | No data available |
| Boiling point | : | 117 - 118 °C |
| Flash point | : | 40 °C |
| Auto-ignition temperature | : | 485 K |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Flammable liquid and vapour |
| Vapor pressure | : | 15.2 hPa at 20°C |
| Relative vapour density at 20°C | : | 2.1 |
| Relative density | : | No data available |
| Density | : | 1.049 g/cm ³ |
| Solubility | : | Water: Miscible in water |
| Partition coefficient n-octanol/water (Log Pow) | : | -0.17 at 25°C - Bioaccumulation is not expected |
| Viscosity, kinematic | : | 1.163 mm ² /s |
| Viscosity, dynamic | : | 1.22 cP |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Lower explosive limit (LEL) | : | 4 vol% |
| Upper explosive limit (UEL) | : | 19.9 vol% |

9.2. Other information

No additional information available



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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Thermal decomposition generates : Corrosive vapors. Flammable liquid and vapor.

10.2. Chemical Stability

Flammable liquid and vapor.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.
Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.
Thermal decomposition generates : Corrosive vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | | |
|-----------------------------------|---|--|
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |
| Skin corrosion/irritation | : | Causes severe skin burns. pH: 2.4 (1.0 M solution) |
| Serious eye damage/irritation | : | Assumed to cause serious eye damage pH: 2.4 (1.0 M solution) |
| Respiratory or skin sensitization | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |
| Carcinogenicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |
| Reproductive toxicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |
| STOT-single exposure | : | May cause drowsiness or dizziness |
| Additional information | : | Based on available data, the classification criteria are not met |
| STOT-repeated exposure | : | Not classified |

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : May be fatal if swallowed and enters airways.

Additional information : Based on available data, the classification criteria are not met

ACETIC ACID (CAS No.64-19-7)

| | |
|----------------------|--------------------------|
| Viscosity, kinematic | 1.163 mm ² /s |
|----------------------|--------------------------|

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general danger : Before neutralisation, the product may represent a

to aquatic organisms.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. Persistence and degradability

ACETIC ACID (CAS No.64-19-7)

| | |
|-------------------------------|-----------------|
| Persistence and degradability | Not established |
|-------------------------------|-----------------|

12.3. Bioaccumulative potential

ACETIC ACID (CAS No.64-19-7)

| | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -0.17 at 25°C - Bioaccumulation is not expected |
|---|---|

| | |
|----------------------------|-----------------|
| Bio accumulative potential | Not established |
|----------------------------|-----------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT AND vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

