



SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Acetic Acid 10% Solution

CAS number 64-19-7

Synonyms N/A

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

Identified uses Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Irritation Category 2
Eye Irritation Category 2A

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

Hazard statements Causes skin irritation.

Causes serious eye irritation.

Precautionary statements

Prevention: Wash skin thoroughly after handling. Wear protective gloves/ eye

protection/ face protection.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before

reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

Get medical advice/ attention.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

SECTION 3: Composition/information on ingredients

3.1 Components

| Chemical name | Common name and synonyms | CAS number | Concentration |
|---------------|-----------------------------|------------|---------------|
| Water | Aqua; H2O | 7732-18-5 | 90% |
| Acetic acid | Ethanoic acid; Vinegar acid | 64-19-7 | 10% |

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Remove to fresh air. If not breathing, give artificial respiration.

In case of skin contact Immediately flush skin with excess water for 15 minutes while removing

contaminated clothing.

In case of eye contact Immediately flush eyes with excess water for 15 minutes, lifting lower and

upper eyelids occasionally.

If swallowed Call Poison Control immediately. Do not induce vomiting. Rinse mouth with

cold water. Give victim 1-2 cups of water or milk to drink.

4.2 Most important symptoms and effects, both acute and delayed

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No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Alcohol-resistant foam. Carbon dioxide (CO2). Dry

chemical. Water spray.

Unsuitable extinguishing media High-volume water jet.

5.2 Specific hazards arising from the substance or mixture

When heated to decomposition, emits acrid fumes of carbon oxides.

5.3 Special protective equipment and precautions for firefighters

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray.

5.4 Further information

Flash Point No information available.

Autoignition Temperature No information available.

Explosion limits

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge Not sensitive.

NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 1 | 0 | 0 | N/A |

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Contain spill with sand or absorbent material and place material in a sealed bag or container for disposal. Wash spill area after pickup is complete.

6.4 Reference to other sections

See Section 13 for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in Corrosive Area with other corrosive items. Store in a dedicated corrosive cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

Incompatibilities

Oxidizing agents, metals, soluble carbonates and phosphates, hydroxides, amines, and alcohols.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910,1000)

| 001 0011/1 Table = 1 | <u> </u> | |
|----------------------|----------|-----------------|
| Component | Туре | Value |
| Acetic acid | TWA | 10 ppm 25 mg/m3 |

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US. ACGIH Threshold Limit Values

| Component | Type | Value |
|-------------|------|--------|
| Acetic acid | TWA | 10 ppm |
| | STEL | 15 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Component | Туре | Value | |
|-------------|------|--------|----------|
| Acetic acid | TWA | 10 ppm | 25 mg/m3 |
| | STEL | 15 ppm | 37 mg/m3 |

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin protection

Protective gloves.

Body Protection

Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

Use NIOSH-approved respirator with an acid/organic cartridge.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Colorless
Odor Vinegar
Odor Threshold 0.48 ppm

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pH 4, acidic

Melting Point/Range

Boiling Point/Range

Evaporation Rate

Flammability (solid)

No data available

No data available

No data available

Not applicable

No data available

Upper

Lower

Vapor Pressure

Vapor Density

No data available

No data available

No data available

1.01 g/mL @ 20°C

Solubility Completely soluble in water

Partition coefficient; No data available

n-octanol/water

Autoignition Temp
Decomposition Temp
No data available
CH3COOH
Molecular Formula
Molecular Weight
VOC Content(%)
No data available
No data available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air.

10.4 Conditions to avoid

Keep away from heat, flame, sparks and other ignition sources. Incompatible materials.

10.5 Incompatible materials

Oxidizing agents, metals, soluble carbonates and phosphates, hydroxides, amines, and alcohols.

10.6 Hazardous decomposition products

None known.

SECTION 11: Toxicological information

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11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------|------------------|---------------------|-----------------|
| Acetic acid | 3310 mg/kg (Rat) | 1120 mg/kg (Rabbit) | - |

Skin corrosion/irritation

Irritating to skin.

Serious eye damage/eye irritation

Irritating to eyes.

Respiratory or skin sensitization

None expected.

Germ cell mutagenicity

Material has not been found to produce genetic effects.

Carcinogenicity

| Component | CAS | IARC | NTP | ACGIH | OSHA | Mexico |
|-------------|-----------|------------|------------|------------|------------|------------|
| Water | 7732-18-5 | Not listed |
| Acetic acid | 64-19-7 | Not listed |

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

None known.

Reproductive toxicity

Material has not been found to produce reproductive or developmental effects.

Chronic effects

Repeated/prolonged skin contact may cause thickening, blackening or cracking. Repeated eye exposure may cause corneal erosion or loss of vision.

11.2 Additional Information

No information available.

SECTION 12: Ecological information

12.1 Toxicity

| Product | | Species | Test Results |
|-------------|------|--------------------------|--------------------|
| Acetic acid | LD50 | Leuciscus idus melanotue | 250 mg/L 48 hours |
| | EC50 | Daphnia magna | 6000 mg/L 24 hours |

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-no UN2790

Proper Shipping Name ACETIC ACID SOLUTION

Hazard Class 8
Packing Group III

IMDG

UN-no UN2790

Proper Shipping Name ACETIC ACID SOLUTION

Hazard Class 8
Packing Group III

IATA

UN-no UN2790

Proper Shipping Name ACETIC ACID SOLUTION

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Hazard Class 8
Packing Group III

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, Acetic acid (CAS #64-19-7), RQ: 5000 lb.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See Section 2 for more information.

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA)

Listed, Acetic acid (CAS #64-19-7), RQ: 5000 lb.

FEMA Priority Substances Respiratory Health and Safety in the Flavor

Manufacturing Workplace

Listed, Acetic acid (CAS #64-19-7).

US state regulations

US. Massachusetts RTK - Substance List

Listed, Acetic acid (CAS #64-19-7).

US. New Jersey Worker and Community Right-to-Know Act

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Listed, Acetic acid (CAS #64-19-7).

US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Acetic acid (CAS #64-19-7).

California Proposition 65

Not listed.

SECTION 16: Other information

Issue date: 01/23/2009 Revision 1: 11/11/2024

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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