

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Acetic Acid, Glacial

CAS number 64-19-7

Synonyms Ethanoic acid; Methanecarboxylic acid

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

Identified uses General purpose solvent.

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)

Flammable Liquids Category 3
Skin Corrosion/Irritation Category 1A
Serious Eye Damage/Eye Irritation Category 1

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements Flammable liquid and vapor.

Causes severe skin burns and eye damage.

Precautionary statements

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash face, hands, and any exposed skin thoroughly after handling. Keep container tightly closed.

Response: Immediately call a POISON CENTER or doctor/physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse.

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

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Fire: In case of fire, use CO2, dry chemical, or foam for extinction.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an approved waste disposal plant.

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
Acetic acid	Ethanoic acid; Methanecarboxylic acid	64-19-7	<=100%

SECTION 4: First aid measures

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4.1 Description of first-aid measures

General advice

If inhaled If not breathing, give artificial respiration. Remove from exposure, lie down.

Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a

physician immediately.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove

and wash contaminated clothing and gloves, including the inside, before re-

use. Call a physician immediately.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

If swallowed Do NOT induce vomiting. Clean mouth with water. Never give anything by

mouth to an unconscious person. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media CO2, dry chemical, dry sand, alcohol-resistant

foam.

Unsuitable extinguishing media No information available.

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin, and mucous membranes.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3 Special protective equipment and precautions for firefighters

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As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Flash Point 39 °C (103°F) - Closed Cup

Autoignition Temperature 463°C (867°F)

Explosion limits

Upper 19.9 vol % **Lower** 4.0 vol %

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
3	2	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed, seek immediate medical assistance.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Corrosives area. Keep away from heat, sparks, and flame. Keep containers tightly closed in a dry, cool, and well-ventilated place.

Incompatibilities

Strong oxidizing agents. Strong bases. Metals.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Val	ue
Acetic acid	(Vacated) TWA	10 ppm	25 mg/m3
	TWA	10 ppm	25 mg/m3

US. ACGIH Threshold Limit Values

Component	Туре	Value
Acetic acid	TWA	10 ppm
	STEL	15 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Val	ue
	IDLH	50 ppm	
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 only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles, as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

Skin protection

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Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143. Acid gases filter. Type E. Yellow. Conforming to EN14387.

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 Clear

Odor Sharp/Vinegar

Odor Threshold No information available

pH 2

Melting Point/Range 16°C (61 °F)
Boiling Point/Range 117.9°C (244.2°F)
Evaporation Rate No information available

Flammability (solid) Not applicable

Flammability or explosive limit

Upper 19.9% (V) Lower 4% (V)

Vapor Pressure 15.2 hPa (11.4 mmHg) at 20.0 °C

Vapor Density 2.1

Density 1.049 g/mL at 25 °C

Solubility Miscible
Partition coefficient; log Pow: -0.17

n-octanol/water

Autoignition Temp 463 °C (867 °F)

Decomposition Temp

Viscosity

No information available

No information available

Molecular Formula C2 H4 O2
Molecular Weight 60.05 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

9.2 Other safety information

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SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces, and sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents, Strong bases, Metals.

10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2).

SECTION 11: Toxicological information

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)	1,112 mg/kg (Rabbit)	> 40 mg/L (Rat) 4 h

Skin corrosion/irritation

Causes severe burns by all exposure routes.

Serious eye damage/eye irritation

Causes severe burns by all exposure routes.

Respiratory or skin sensitization

Potential to cause skin sensitisation through direct contact.

Germ cell mutagenicity

Not mutagenic in AMES Test.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
•						

| 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

No information available.

Chronic effects

Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting.

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Do not empty into drains.

Product		Species	Test Results
	LC50	Pimephales promelas	88 mg/L/96h
A potio poid	LC50	Lepomis macrochirus	75 mg/L/96h
Acetic acid	EC50	Photobacterium phosphoreum	8.8 mg/L/5 min
	EC50	Water Flea	95 mg/L/24h

12.2 Persistence and degradability

Miscible with water. Persistence is unlikely based on information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Biochemical Oxygen Demanded (BOD): 880 mg/g.

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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 UN2789

Proper Shipping Name ACETIC ACID, GLACIAL

Hazard Class 8
Subsidiary Hazard Class 3
Packing Group II

IMDG

UN-no UN2789

Proper Shipping Name ACETIC ACID, GLACIAL

Hazard Class 8
Subsidiary Hazard Class 3
Packing Group II

IATA

UN-no UN2789

Proper Shipping Name ACETIC ACID, GLACIAL

Hazard Class 8
Subsidiary Hazard Class 3
Packing Group II

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)

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Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Acute Health Hazard, Chronic Health Hazard, Fire Hazard.

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) - Hazardous Substances

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

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: 09/28/2020 Revision 1: 10/04/2023 Revision 2: 11/14/2024

SECTION 17: Disclaimer

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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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