

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name            Acetic Acid 0.1N 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)**  
Not classified.

#### 2.2 GHS Label elements, including precautionary statements

Not classified as a hazardous chemical.

#### 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; H <sub>2</sub> O	7732-18-5	99.4%
Acetic acid	Ethanoic acid; Methanecarboxylic acid	64-19-7	0.6%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

- If inhaled** Allow victim to breathe fresh air. Allow the victim to rest.
- In case of skin contact** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- In case of eye contact** Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, or redness persist.
- If swallowed** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Not expected to present a significant hazard under anticipated conditions of normal use.

### 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** Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media** Do not use a heavy water stream.

### 5.2 Specific hazards arising from the substance or mixture

No information available.

### 5.3 Special protective equipment and precautions for firefighters

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

### 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** No information available.

**Sensitivity to Static Discharge** No information available.

#### NFPA

Health	Flammability	Instability	Physical hazards
1	0	0	N/A

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Safety glasses. Evacuate unnecessary personnel. Equip cleanup crew with proper protection. Ventilate area.

### 6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3 Methods and materials for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4 Reference to other sections

See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Precautions on safe handling**

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 vapor.

**Hygiene measures**

Do not eat, drink, or smoke during use.

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Keep container closed when not in use.

**Incompatibilities**

Strong oxidizers. Metals. Strong bases. Sources of ignition. Direct sunlight.

**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	Value	
Acetic acid	(Vacated) TWA	10 ppm	25 mg/m <sup>3</sup>
	TWA	10 ppm	25 mg/m <sup>3</sup>

**US. ACGIH Threshold Limit Values**

Component	Type	Value
Acetic acid	TWA	10 ppm
	STEL	15 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Type	Value	
Acetic acid	IDLH	50 ppm	
	TWA	10 ppm	25 mg/m <sup>3</sup>
	STEL	15 ppm	37 mg/m <sup>3</sup>

**Biological occupational exposure limits**

No information available.

**8.2 Exposure controls****Appropriate engineering controls**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Personal protective equipment**

**Eye/face protection**

Chemical goggles or face shield.

**Skin protection**

Wear protective gloves.

**Body Protection**

Wear suitable protective clothing.

**Respiratory protection**

Respiratory protection not required in normal conditions.

**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	None
Odor Threshold	No data available
pH	No data available
Melting Point/Range	No data available
Boiling Point/Range	No data available
Evaporation Rate	No data available
Flammability (solid)	Not applicable
Flammability or explosive limit	No data available
Upper	
Lower	
Vapor Pressure	No data available
Vapor Density	No data available
Density	1 g/mL
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	No data available
Decomposition Temp	No data available
Viscosity	1.02 cSt, kinematic
Molecular Formula	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>
Molecular Weight	60.05 g/mol
VOC Content(%)	No data available
Oxidizing properties	No data available

**9.2 Other safety information**

No information available.

## 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

Not established.

### 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5 Incompatible materials

Strong oxidizers. Metals. Strong bases.

### 10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

## 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

Not classified.

#### Serious eye damage/eye irritation

Not classified.

#### Respiratory or skin sensitization

Not classified.

#### Germ cell mutagenicity

Not classified.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed

Acetic acid	64-19-7	Not listed	Not listed	Not listed	Not listed	Not listed
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**Specific target organ toxicity - single exposure**

Not classified.

**Specific target organ toxicity - repeated exposure**

Not classified.

**Reproductive toxicity**

Not classified.

**Chronic effects**

Not classified.

**11.2 Additional Information**

The toxicological properties have not been fully investigated.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Avoid release to the environment.

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

**12.2 Persistence and degradability**

Readily biodegradable in water. Biodegradable in the soil.

**12.3 Bio accumulative potential**

Low potential for bioaccumulation.

**12.4 Mobility in soil**

Highly mobile in soil.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

May be harmful to plant growth, blooming, and fruit formation.

**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

<b>DOT (US)</b>	Not regulated.
<b>IMDG</b>	Not regulated.
<b>IATA</b>	Not regulated.

### 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) - 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**

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**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.