



Material Safety Data Sheet
Acetic acid solutions, 0.1% - 56% V/V

Section 1 - Chemical Product and Company Identification

MSDS Name:

Acetic acid solutions, 0.1% - 56% V/V

Catalog Numbers:

LC10120, LC10150, LC10160, LC10180, LC10190, LC10210, LC10240, LC10260, LC10280, LC10290, LC10310, LC10350, LC10360, LC10380, LC10390, LC10400

Synonyms:

Acetic acid solutions, Normal-W/W-W/V-V/V conc.

Company Identification:LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238**Company Phone Number:**

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
64-19-7	Acetic acid	0.1 - 56

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

*Appearance: Colorless**Caution! May cause respiratory tract irritation. May cause eye and skin irritation. May cause digestive tract irritation with nausea, vomiting, and diarrhea.**Target Organs: none known.***Potential Health Effects****Eye:**

Eye contact may result in swelling irritation, damage to the cornea and conjunctiva resulting in blurred or partial loss of vision.

Skin:

Skin contact may result in irritation, pain, burns, blisters, and brown or yellow stains.



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Ingestion:

Ingestion may result in severe burns of the mouth, throat, and stomach; vomiting and diarrhea of dark blood. Asphyxia from throat swelling can occur, perforations of the esophagus and stomach can occur.

Inhalation:

50ppm causes irritation to most individuals. Respiratory irritation, coughing, choking, headache, dizziness, weakness can occur. Delayed symptoms include lung fluid, chest pains, frothy sputum, cyanosis, rales and hypotension.

Chronic:

May cause dermatitis and conjunctivitis. Dental erosion, tooth discolorization, jaw necrosis, nasal ulceration, laryngitis, bronchitis, pneumonia and gastrointestinal disturbances can occur.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Cover burns with loose sterile non-medicated bandages.

Skin:

Get medical aid at once. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

Ingestion:

Do NOT induce vomiting and seek IMMEDIATE MEDICAL ADVICE. Give conscious victim large quantities of water to dilute acid.

Inhalation:

Get medical aid at once. Move victim to fresh air immediately. Give artificial respiration if necessary. Maintain airway, give oxygen (medical trained only), maintain blood pressure.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Move container if possible, cool with flooding amounts of water. Avoid breathing corrosive vapors, knock down with water spray. Vapors heavier than air, may travel considerable distance and flash back from source of ignition.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS # 64-19-7 health-3; flammability-2; reactivity-0

Explosion Limits:

Lower: Upper:



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Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with an alkaline material such as soda ash or lime. Place in labeled plastic containers for disposal, wash area down with water. Absorb liquid with inert or neutralizing substance such as fuller's earth, cement powder, fly ash, sand.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use only in a well ventilated area. Avoid prolonged or repeated contact with skin.

Storage:

Store in cool, dry area away from heat and oxidizers.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Acetic acid	10 ppm TWA; 15 ppm STEL	10 ppm TWA; 25 mg/m ³ TWA	10 ppm TWA; 25 mg/m ³ TWA;

OSHA Vacated PELs

Acetic acid: 10 ppm TWA; 25 mg/m³ TWA

Personal Protective Equipment

Eyes:

Wear safety glasses and chemical goggles or face shield if handling liquids. Provide an eye-wash fountain in the immediate work area. Do not wear contact lenses when working with chemicals.

Skin:

Wear acid protective clothing and gloves.

Clothing:

Wear acid protective clothing and gloves.

Respirators:

>100ppm- SCBAF:PD,PP; SAF:PD,PP,CF.
500ppm- CCROVF/GMOV/SAF/SCBAF.
1000ppm- SAF:PD,PP,CF. Escape-GMOV/SCBA. Firefighting- SCBAF:PD,PP.



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Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Color: Colorless
Odor: Mild to pungent vinegar-like odor
pH: Acidic
Vapor Pressure: 14 mm Hg @20°C
Vapor Density: 0.7-2.1
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: 212-244°F
Freezing/Melting Point: 32-62°F
Decomposition Temperature: No information found.
Solubility in water: Miscible.
Specific Gravity/Density: 1.0-1.4
Molecular Formula: No information found.
Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Metals, oxidizers.

Incompatibilities with Other Materials

Chromic acid, chromic anhydride, nitric acid, perchloric acid, permanganates, sodium peroxide, potassium hydroxide, hydrogen peroxides, acid anhydrides.

Hazardous Decomposition Products

Oxides of carbon.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 64-19-7: AF1225000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 64-19-7:

Inhalation, mouse: LC50 = 5620 ppm/1H

Oral, rat: LD50 = 3310 mg/kg

Skin, rabbit: LD50 = 1060 mg/kg.



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Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 64-19-7: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Severe eye, mucous membrane and skin irritant, skin sensitizer.

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

	US DOT 50 to 80% W/W	More than 10% and Less than 50% W/W	0 to 10% W/W
Shipping Name:	Acetic acid solution	Acetic acid solution	Not regulated
Hazard Class:	8	8	
UN Number:	UN2790	UN2790	
Packing Group:	PG II	PG III	

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 64-19-7 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS# 64-19-7: final RQ = 5000 pounds (2270 kg)

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State



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State Right to Know

Acetic acid can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 64-19-7 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 64-19-7 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 21, 1997

Revision Date: February 27, 2007

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