



Material Safety Data Sheet

Ammonium acetate buffer, APHA, ASTM

Section 1 - Chemical Product and Company Identification

MSDS Name:

Ammonium acetate buffer, APHA, ASTM

Catalog Numbers:

LC10970, LC10985

Synonyms:**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	20-70
631-61-8	Ammonium acetate	10-25

Section 3 - Hazards Identification

Emergency Overview

Appearance: *Colorless*

Caution! *May cause severe eye and skin irritation with possible burns. May cause severe respiratory tract irritation with possible burns.*

Target Organs: *None known.*

Potential Health Effects

Eye:

Eye contact can result in corneal and conjunctival edema, iritis, erosion and opacity with pain, lachrymation, photophobia and blurred vision.

Skin:

Severe irritation, pain, burns with blistering, brown/yellow stains, possible sensitization dermatitis.

Ingestion:

Ingestion may produce burns of the mouth, esophagus with abdominal pain, vomiting, diarrhea, asphyxia (esophageal welling), stomach and esophageal perforation.



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Inhalation:

Will cause irritation to nose, throat, mucous membranes, and respiratory tract. Mucous membrane irritation. May produce sore throat, headache, nausea, dizziness, vomiting, coughing, dyspnea, pneumonitis, rhinitis, bronchitis, pharyngitis, possible pulmonary edema. May cause coughing, dyspnea, headache, weakness with delayed symptoms of pharyngitis, possible pulmonary edema. May cause coughing, dyspnea, headache, weakness with delayed symptoms of pulmonary edema.

Chronic:

Dental erosion, tooth discolorization, jaw necrosis, nasal ulceration, laryngitis, bronchitis, pneumonia and gastrointestinal disturbances can occur. Yellow/brown stains 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. Get medical aid at once. Cover burns with loose sterile non-medicated bandages.

Skin:

Get medical aid. Immediately 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:

Get medical aid at once. Give oxygen if respiration is depressed.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Vapors heavier than air, may travel considerable distance and flash back from source of ignition. Move container if possible, avoid breathing vapors or dust. Acetic acid may react explosively with oxidizing materials or give off flammable/explosive vapors above its flash point (104F). Avoid breathing toxic and corrosive vapors - keep upwind.

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

CAS# 631-61-8: Not published.

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 spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. May be neutralized with slaked lime, limestone, or sodium bicarbonate to a pH 7. 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. Avoid breathing dust, vapor, mist, or gas.

Storage:

Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation.

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
Ammonium acetate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs:

Acetic acid: 10 ppm TWA; 25 mg/m³ TWA

Acetic acid: 10 ppm TWA; 25 mg/m³ TWA

Personal Protective Equipment**Eyes:**

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.



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Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	Colorless
Odor:	Vinegar-like
pH:	No information found.
Vapor Pressure:	11 mm Hg @20°C
Vapor Density:	> air
Evaporation Rate:	< ether
Viscosity:	No information found.
Boiling Point:	No information found.
Freezing/Melting Point:	No information found.
Decomposition Temperature:	No information found.
Solubility in water:	Soluble.
Specific Gravity/Density:	>1.0
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:

Incompatible materials, exposure to heat or flames.

Incompatibilities with Other Materials:

Oxidizing materials, metals, bromine trifluoride, chlorine trifluoride, nitric acid, permanganates, peroxides, phosphorus, bromine pentafluoride, organics.

Hazardous Decomposition Products:

Oxides of nitrogen, oxides of carbon, ammonia.

Hazardous Polymerization:

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 64-19-7: AF1225000.

CAS# 631-61-8: AF3675000.

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.

CAS# 631-61-8:

No information found.



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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.

CAS# 631-61-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Ammonium acetate-- an eye, skin, and mucous membrane irritant.

Acetic acid-- a severe eye, mucous membrane, and skin sensitizer. Target organs are the respiratory system, skin, eyes, and teeth.

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

LC10970

LC10985

Shipping Name: Acetic acid solution

Not regulated

Hazard Class: 8

UN Number: UN2790

Packing Group: PG II

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.

CAS# 631-61-8 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

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

CAS# 631-61-8: final RQ = 5000 pounds (2270 kg)



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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

State Right to Know:

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

Ammonium acetate can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, 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.

CAS# 631-61-8 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.

CAS# 631-61-8 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: February 17, 1998

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