Safety Data Sheet

Ammonium acetate buffer solution

Version: V2.0.0.1

Report No.: BWZ0080-2016-MSDS-US

Creation Date: 2025/10/10

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1	Identification
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| Product identifier

Product Name	Ammonium acetate buffer solution		
Cat No.	BWZ0080-2016		
CAS No.	Not applicable		
EC No.	Not applicable		
Molecular Formula	Not applicable		

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emergency	nhone	number	010-58103678
Emerdency	pnone	number	∥ UTU-56TU3676

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Flammable liquids	Category 3
Skin corrosion/irritation	Category 1A
Serious eye damage/irritation	Category 1

Label elements

Hazard pictograms	
Signal word	Danger

Hazard statements	
H226	Flammable liquid and vapour
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
Precautionary statements	
◆ Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
P233	sources. No smoking. Keep container tightly closed.
P240	
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
◆ Response	
P321	Specific treatment (see related instructions on the label).
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P370+P378	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire: alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Figh fire from maximum distance or use unmanned master stream devices or monito nozzles. Cool containers with flooding quantities of water until well after fire is or
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
	affected areas with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
◆ Storage	
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
◆ Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	. <u> </u>
	Not applicable.
Hazard description	
 Physical and chemical haz 	ards
T Tryotodi dila offormodi flazi	Flammable liquids, its vapor and air mixture can form explosive mixture.
A Haakka kaasaasa	i aminable liquids, its vapor and all mixture can form explosive mixture.
♦ Health hazards	
Inhaled	Sore throat. Cough. Burning sensation. Headache. Dizziness. Shortness of

	breath. Laboured breathing.	
Ingestion	Sore throat. Burning sensation. Abdominal pain. Vomiting. Shock or collapse.	
Skin Contact	Pain. Redness. Skin burns. Blisters.	
Eye	Redness. Pain. Severe burns. Loss of vision.	
Environmental hazards		
	Please refer to 12th chapter of SDS.	

Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Acetic acid	64-19-7	200-580-7	56.96
Water	7732-18-5	231-791-2	23.25
Ammonium acetate	631-61-8	211-162-9	19.79

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse with plenty of water (remove contact lenses if easily possible). Refer immediately for medical attention.
Skin contact	Remove contaminated clothes. Rinse skin with plenty of water or shower for at least 15 minutes. Refer immediately for medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. If within a few minutes after ingestion, one small glass of water may be given to drinkRefer immediately for medical attention.
Inhalation	Fresh air, rest. Half-upright position. Refer immediately for medical attention.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

5 Fire-fighting measures

| Extinguishing media

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Suitable extinguishing media	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire:
	alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight
	fire from maximum distance or use unmanned master stream devices or monitor
	nozzles. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	Use of water spray when fighting fire may be inefficient.

Keep leaks in a ventilated place.

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bunding.

Specific hazards arising from the substance or mixture Will form explosive mixtures with air. Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ 2 or vapour concentration. 3 Vapours may travel to source of ignition and flash back. 4 Liquid and vapour are flammable. 5 Development of hazardous combustion gases or vapor possible in the event of fire. 6 May expansion or decompose explosively when heated or involved in fire. Special protective equipment and precautions for fire-fighters As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. 2 Fight fire from a safe distance, with adequate cover. 3 Prevent fire extinguishing water from contaminating surface water or the ground water system. Accidental release measures Personal precautions, protective equipment and emergency procedures Avoid breathing vapours and contacting with skin and eye. 2 Beware of vapours accumulating to form explosive concentrations. 3 Vapours can accumulate in low areas. 4 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves. 5 Use personal protective equipment, do not breathe gas/mist/vapour/spray. 6 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. 7 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-static clothing. 2 In case of small amount of spillage, use clean non sparking tools to collect absorption materials. In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to 3 reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in the restricted space. Collect absorbent material using a clean, non-sparking tool. Cover with anti-solvent foam to reduce evaporation. 5 6 Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. 7 Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces. 8 Cut off the source of the leak as much as possible.

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by

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11	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
12	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.
13	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

| Precautions for safe handling

1	Avoid inhalation of vapors.
2	Use only non-sparking tools.
3	To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
4	Use explosion proof equipment.
5	Handling is performed in a well ventilated place.
6	Wear suitable protective equipment.
7	Avoid contact with skin and eyes.
8	Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

| Control parameters

Occupational exposure limit values

Component	Country/Region	Limit value	- Eight hours	Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Acetic acid	Japan - JSOH(2024–202 5)	10	25	-	-
	Permissible exposure standards for workers in the workplace	10	25	15	37.5
	Australia	10	25	15	37
	Canada - Ontario	10	-	15	-
	European Union	10	25	20	50
	New Zealand	10	25	15	37

| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate anti-corrosion goggles.
Hand protection	Must wear acid and alkali resistant chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.

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9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

1 you our our our our proportion			
Appearance (physical state, color, etc.)	Clear, colorless liquid		
Odor	No information available		
Odor threshold	No information available		
рН	2.9 (Acetic acid)		
Melting point/freezing point(°C)	16.7 (Acetic acid)		
Initial boiling point and boiling range(°C)	118 (Acetic acid)		
Flash point(Closed cup,°C)	39 (Acetic acid)		
Evaporation rate	No information available		
Flammability	No information available		
Upper/lower explosive limits[%(v/v)]	Upper limit: 17 (Acetic acid); Lower limit: 6.0 (Acetic acid)		
Vapor pressure	1.5kPa (20°C ,Acetic acid)		
Vapor density(Air = 1)	2.1 (Acetic acid)		
Relative density(Water=1)	1.05 (Acetic acid)		
Solubility	602900mg/L (25 °C,Acetic acid)		
n-octanol/water partition coefficient	-0.17 (Acetic acid)		
Auto-ignition temperature(°C)	485 (Acetic acid)		
Decomposition temperature(°C)	No information available		
Kinematic viscosity	No information available		

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	Flammable, its gas or powder, if in contact with air, may form explosive mixtures. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Metal alkoxides, furfuryl alcohol, acetaldehyde, nitric acid, nitrate, nitrite, oxyacid

	salt halogen and inorganic peroxide. Alkali, sodium, calcium, and other active
	metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Acetic acid	3310mg/kg(Rat)	1130mg/kg(Rabbit)	No information available

Carcinogenicity

Component List of carcinogens		Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
Acetic acid	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed
Ammonium acetate	Not Listed	Not Listed	Not Listed

Others

Ammonium acetate buffer solution		
Skin corrosion/irritation	Causes severe skin burns and eye damage(Category 1A)	
Serious eye damage/irritation	Causes serious eye damage(Category 1)	
Skin sensitization	Based on available data, the classification criteria are not met	
Respiratory sensitization	Based on available data, the classification criteria are not met	
Reproductive toxicity	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	Based on available data, the classification criteria are not met	

12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants		
Acetic acid	LC ₅₀ : 300.82mg/L	EC ₅₀ : 65mg/L	No information available		
	(96h)(Fish)	(48h)(Crustaceans)			
Ammonium acetate	LC ₅₀ :308mg/L (96h)(Fish)	EC ₅₀ : 108.81mg/L	No information available		
		(48h)(Crustaceans)			

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic		
			plants		
Acetic acid	Acetic acid NOEC : 34.3		No information available		
	~57.2mg/L(Fish)				
Ammonium acetate	NOEC: 154mg/L(Fish)	No information available	No information available		

| Persistence and degradability

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Acetic acid Low		Log Kow=-0.17
Ammonium acetate	Low	Log Kow=0.229

Mobility in soil

Component	log Koc	Remark
Acetic acid	0.06	20 ℃
Ammonium acetate	0.179	

Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

Transport information

Label and Mark

Transporting Label



| IMDG-CODE

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class	3
Transport subsidiary hazard class	None
Packing group	ш
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class	3

Transport subsidiary hazard	None
class	
Packing group	ш

UN-ADR

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	ш

Transport in bulk according to IMO instruments

◆Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Transit should be anti-exposure, anti-rain, anti-high temperature. Transportation used tank (tank) cars should be grounded chain, tank can be installed to reduce the partition hole static electricity shocks. Strictly prohibited shipping or transportation with oxidants, acids, food and food additives etc. When bulk transport, Prohibit the use of cement or wooden boats. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

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15 Regulatory information

International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	М
Acetic acid	√	√	√	√	√	√	√	√	√	√	√	√	√
Water	√	√	√	√	√	√	√	√	√	√	√	√	√
Ammonium acetate	√	√	×	√	√	√	√						

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- (G) Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)

- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	A	В	С
Acetic acid	×	×	×
Water	×	×	×
Ammonium acetate	×	×	×

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- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Acetic acid	×	×	√	√	√	√	√	×
Water	×	×	×	×	×	×	×	×
Ammonium acetate	×	×	√	√	√	√	√	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/10
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.