SAFETY DATA SHEET

According to Regulation (EU) No. 2020/878

Buffer PH

Version	Revision Date:	Date of last issue: 2026/01/01
4.0	2026/01/01	Date of first issue: 2023/06/29

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

1.1 Product identifier

Product name: Buffer PH

Product number: 530-002812-00 ,530-002802-00

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

Recommended restrictions: Reagent.

1.3 Details of the supplier of the safety data sheet

Company	Wuhan MGI Tech Co., Ltd
Address 1	Building 24, Stage 3.1, BioLake Accelerator, No.388, 2nd Gaoxin Road, East Lake High-Tech Development Zone, Wuhan, China
Address 2	No.66.7th Guanggu Road, East Lake High-TechDevelopment Zone, 430075, Wuhan, P.R. China
Zip code	430075
Web	https://en.mgi-tech.com
E-mail	MGI-service@mgi-tech.com
TEL.	+86 4000-688-114

1.4 Details of the EU supplier for the Safety Data Sheet

Company	Latvia MGI Tech, SIA
Address	Lidostas parks, Marupes pag., Marupes nov., LV-2167, Latvia
Zip code	LV-2167
Web	http://en.mgitech.cn
E-mail	mgi.lv@genomics.cn
TEL.	+371 67074475

1.5 Emergency telephone number

+86 4000-688-114

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin corrosion/irritation Category 1

Adverse physicochemical, human health and environment

To our knowledge, this product can cause eye damage or eye irritation

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

Signal Word: Danger

Hazard statements

H314: Causes severe skin burns and eye damage

Precautionary statements:

Prevention:

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash thoroughly after handing.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

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 SKIN 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.

Disposal:

P501:Dispose of contents/container to… in accordance with local/regional/national/ international regulations (to bespecified).

EUH-statements:

No CLP disposal statements.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent,bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

ingredient	CAS-No.	EC No.	Concentration (% w/w)	Classification
Potassium acetate	127-08-2	204-822-2	1%-5%	Non-hazardous
Ammonium acetate	631-61-8	211-162-9	5%-10%	Non-hazardous
Ammonium sulfate	7783-20-2	231-984-1	1%-5%	Non-hazardous
acetic acid	64-19-7	200-580-7	10%-17%	Flammable Liquids Category 3 H226 Skin corrosion/irritation Category 1A H314
Water	7732-18-5	231-791-2	70%-80.0%	Non-hazardous
Other components	-	-	<1%	Non-hazardous

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice :	Leave this dangerous place Contact a doctor Present this SDS to the doctor present Don't let the victim be left unattended
If inhaled :	Call your doctor immediately or call the National Emergency Advice for Hazardous Chemicals. Transfer to fresh air. If you are unconscious,place it in a recovery position and seek medical advice.
In case of skin contact :	If skin or hair contact occurs,remove contaminated clothing and wash skin and hair with tap water. Seek medical advice if there is swelling, redness, blisters or irritation. Seek medical attention promptly
In case of eye contact :	If you come into contact with your eyes, rinse your eyes with plenty of water and seek medical advice. Continue to flush your eyes while transporting to the hospital. Remove the contact lens. Protect the eyes without injuries. Keep your eyes wide when you rinse. If you still have eye irritation, consult a specialist. Keep the airway open.
If swallowed :	Do not induce vomiting. Do not give milk or alcoholic beverages. Never feed anything that is unconscious to your mouth.. The victim was taken to the hospital immediately. Rinse with water.

4.2 Most important symptoms and effects, both acute and delayed

NO DATA.

4.3 Indication of any immediate medical attention and special treatment needed

NO DATA.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Extinguish with water mist, alcohol-resistant foam, dry powder or carbon dioxide
Unsuitable extinguishing media	NO DATA

5.2 Special hazards arising from the substance or mixture

NO DATA.

5.3 Advice for firefighters

Special protective equipment for firefighters :	Wear self-contained breathing apparatus for firefighting if nec-essary.
Further information:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored sepa-rately in closed containments. Use a water spray to cool fully closed containers

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions :	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Refer to protective measures listed in sections 7 and 8. Beware of vapours accumulating to form explosive concentra-tions. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions :	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If there is pollution in the sewer or waterway, please report to the local authorities.

6.3 Methods and material for containment and cleaning up

a lot of leaks:
Use an inert absorbent material such as sand or soil to absorb spillage.
Collect spilled product and place it in a sealable container or bucket for disposal.
Clean contaminated areas and objects with plenty of water and detergent.
Small amount of leakage:
Absorbing materials such as sand or soil absorb spillage.
Collect spilled product and place it in a sealable container for disposal.
Clean contaminated areas and objects with water and detergent

6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid the formation of aerosols.
Do not breathe steam/dust.
Avoid contact - get special instructions before use.
Avoid contact with skin and eyes.
See section 8 for personal protection.
Smoking, eating and drinking areas should be prohibited during use.
Take precautions to prevent electrostatic discharge.
Provide adequate air exchange and/or exhaust in the workroom.
Dispose of rinse water in accordance with local and national regulations.
To prevent leakage or spillage, provide a suitable liquid retention system.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, clean, cool, well-ventilated area away from direct sunlight.
Store in the original labeled container and keep the container closed when not in use.
Store the container upright, away from oxidizers, alkalis and food.
Check regularly for leaks.

7.3 Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

	Limit value - Eight hours		Limit value - Short term	
acetic acid	ppm	mg/m³	ppm	mg/m³
	10	25	20	50

8.2 Exposure controls

Appropriate engineering controls

Safety shower. Eyewash station. Ensure good ventilation of the work station.

Personal protection equipment

Eye and face protection

Safety glasses with side shields.

Skin protection

Wear suitable protective clothing.

Hand protection

Protective gloves.

Respiratory protection

[In case of inadequate ventilation] wear respiratory protection.

Thermal hazard protection

No information available.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance and shape:	Colorless or light yellow liquid
odor:	Scentless
pH value:	4~6
Melting point / freezing point:	no data
Boiling point:	no data
Flash point:	no data
Upper explosion limit:	no data
Lower explosion limit:	no data
Vapor Pressure:	no data
Vapor density	no data
density	1.12
Solubility	no data
N-octanol/water partition coefficient	no data
Auto-ignition temperature	no data
Decomposition temperature	no data

9.2 Other information

Information with regard to physical hazard classes

No additional information available

Other safety characteristics

No additional information

SECTION 10: Stability and reactivity

10.1 Stability

Stable under the recommended storage conditions.

10.2 Possibility of hazardous reactions

No hazardous reactions when stored and handled within normal conditions of use.

10.3. Conditions to avoid

Avoid extremes of temperature and direct sunlight.
Avoid contact with incompatible materials.

10.4 Incompatible materials

Oxidising agents and alkalis.

10.5 Hazardous decomposition products

Oxides of carbon and nitrogen, smoke and other toxic fumes

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

For Potassium acetate:

Oral LD50 (rat):	3.25 mg/kg
Inhalation LC50 (rat)	>6.95 mg/L
Dermal LD50 (rat):	>33820.97mg/kg

For Ammonium acetate:

Oral LD50 (rat):	2.55 mg/kg
Dermal LD50 (rat):	>26556.42mg/kg

For Ammonium sulfate:

Oral LD50 (rat):	4250 mg/kg
Inhalation LC50 (rat)	6.5 mg/L
Dermal LD50 (rat):	>2000mg/kg

For acetic acid:

Oral LD50 (rat):	3310 mg/kg
Inhalation LC50 (rat)	>16000 mg/L

Skin corrosion/irritation

Causes severe skin burns and eye damage

Serious eye damage/eye irritation

Causes severe skin burns and eye damage

Respiratory or skin allergies

Based on available data, the classification criteria are not met

Germ cell mutagenicity

There is not sufficient data to presume that this product is a germ cell mutagen and can cause heritable genetic damage.

Carcinogenicity

There is not sufficient data to presume that this product is carcinogenic and can cause cancer.

Reproductive toxicity

Based on available data, the classification criteria are not met

Specific target organ toxicity (one exposure)

Based on available data, the classification criteria are not met

Specific target organ system toxicity (repeated exposure)

No data

Aspiration hazard

No data

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties :

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

11.2.2 Other information

Potential adverse human health effects and symptoms :

No additional information available.

SECTION 12: Ecological information

12.1 Toxicity

For Potassium acetate:

Fish LC50(96h):	496.35 mg/L(Channel catfish)
Aquatic invertebrates EC50(48h):	2483 mg/L(Daphnia magna)
Algae and cyanobacteria EC50(72h):	500 mg/L(Pseudokirchneriella subcapita)

For Ammonium acetate:

Fish LC50(96h):	308 mg/L(Channel catfish)
Aquatic invertebrates EC50(48h):	>1000mg/L(Daphnia magna)
Algae and cyanobacteria EC50(72h):	392.7 mg/L(Pseudokirchneriella subcapita)

For Ammonium sulfate:

Fish LC50(96h):	11.23 mg/L(Channel catfish)
Aquatic invertebrates EC50(48h):	169 mg/L(Daphnia magna)
Algae and cyanobacteria EC50(72h):	1600 mg/L(Pseudokirchneriella subcapita)

For acetic acid:

Fish LC50(96h):	300.82 mg/L(Channel catfish)
Aquatic invertebrates EC50(48h):	300.82 mg/L(Daphnia magna)
Algae and cyanobacteria EC50(72h):	300.82 mg/L(Pseudokirchneriella subcapita)

12.2 Persistence and degradability

Products can be biodegraded.

12.3 Potential bioaccumulation

No data

12.4 Soil migration

No data

12.5 Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment （according to (EC) No 2015/830)
Potassium acetate	127-08-2	not PBT/vPvB
Ammonium acetate	631-61-8	not PBT/vPvB
Ammonium sulfate	7783-20-2	not PBT/vPvB

acetic acid	64-19-7	not PBT/vPvB
Water	7732-18-5	not PBT/vPvB

12.6 Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties:

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1760	UN 1760	UN 1760	UN 1760	UN 1760
14.2. UN proper shipping name				
CORROSIVE LIQUID, N.O.S. (20% acetic acid)	CORROSIVE LIQUID, N.O.S. (20% acetic acid)	CORROSIVE LIQUID, N.O.S. (20% acetic acid)	CORROSIVE LIQUID, N.O.S. (20% acetic acid)	CORROSIVE LIQUID, N.O.S. (20% acetic acid)
14.3. Transport hazard class(es)				
8	8	8	8	8
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant: No	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	C9
Special provisions (ADR)	274
Limited quantities (ADR)	5L
Excepted quantities (ADR)	E1
Packing instructions (ADR)	P001

Mixed packing provisions (ADR)	MP19
Portable tank and bulk container instructions (ADR) :	T7
Portable tank and bulk container special provisions (ADR)	TP1、TP28
Tank code (ADR)	L4BN
Vehicle for tank carriage	AT
Transport category (ADR)	3
Special provisions for carriage - Loading, unloading and handling (ADR)	V12
Hazard identification number (Kemler No.)	80
Tunnel restriction code (ADR)	E

Air transport

PCA Excepted quantities (IATA)	E1
PCA Limited quantities (IATA)	Y841
PCA limited quantity max net quantity (IATA)	1 L
PCA packing instructions (IATA)	852
PCA max net quantity (IATA)	5 L
CAO packing instructions (IATA)	856
CAO max net quantity (IATA)	60 L
Special provisions (IATA)	A3 A803

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-true

Regulation (EU) No. 2020/878：
Regulation (EC) No. 1907/2006:
Guidance on the compilation of SDS 2015.11
EU regulation No. 2015/830

15.2 Chemical safety assessment

Please note that waste disposal should also comply with local regulations.

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms

DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances
ENCS	Japanese Existing and New Chemical Substances
IECSC	Chinese Inventory of Existing Chemical Substances
KECL	Korea Existing Chemicals List
PICCS	The Philippine Inventory of Chemicals and Chemical Substances
AICS	The Australian Inventory of Chemical Substances

Abbreviations and acronyms

ED: Endocrine disruptor

Full text of H- and EUH-statements

No information available.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

END OF SDS.