Safety Data Sheet

10 Mix α-hydroxy acids in water

Version: V2.0.0.1

Report No.: BWQ8936-2016-MSDS-US

Creation Date: 2025/10/14

Revision Date: -



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

1 Identification

| Product identifier

Product Name	10 Mix α-hydroxy acids in water
Cat No.	BWQ8936-2016
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	nhono	numbor	010-58103678
Emergency	pnone	number	■ UTU-58TU3678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Serious eye damage/irritation	Category 2
Reproductive toxicity	Category 2

Label elements

1	
Hazard pictograms	
Signal word	Warning
Olgilai Wold	

| Hazard statements

H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child

| Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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

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
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

	No information available	
Health hazards		
Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.	
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.	
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.	
Eye	This product may cause serious eye irritation. Severe inflammation may be expected with pain following direct contact with the eye.	
 Environmental hazards 		

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

| Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Water	7732-18-5	231-791-2	96.78
Glucuronic acid	6556-12-3	229-486-4	0.4
(+)-tartaric acid	87-69-4	201-766-0	0.2
Glycollic acid	79-14-1	201-180-5	0.4

L-malic acid	97-67-6	202-601-5	0.4
Lactic acid	50-21-5	200-018-0	0.5
Citric acid	77-92-9	201-069-1	0.4
Sodium 2-hydroxybutyrate	5094-24-6	225-812-4	0.5
Mandelic acid	90-64-2	202-007-6	0.01
Benzeneacetic acid, α-hydroxy-α-phenyl-	76-93-7	200-993-2	0.01
2-hydroxyoctanoic acid	617-73-2	210-524-3	0.4

4 First-aid measures

Description of first aid measures

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General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
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.
- Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ or water spray; Large fire: dry chemical, CO ₂ ,
	alcohol-resistant foam or water spray; 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. Do not get water inside containers.
Unsuitable extinguishing media	No information available.

Specific hazards arising from the substance or mixture

May emit poisonous fumes on fire.
Development of hazardous combustion gases or vapor possible in the event of fire.
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.

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- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- 2 Do not touch or walk through spilled material.
- 3 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- 4 Use personal protective equipment, do not breathe gas/mist/vapour/spray.
- 5 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 Do not touch or cross spills.
- 2 Cover with anti-solvent foam to reduce evaporation.
- It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-virus suits.
- 4 Spray water disperses the vapor and dilutes the liquid spill.
- 5 Do not touch broken containers and spills before putting on appropriate protective clothing.
- 6 Cut off the source of the leak as much as possible.
- 7 Keep leaks in a ventilated place.
- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 9 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

7 Handling and storage

Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 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.



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
(+)-tartaric acid	Germany (AGS)	-	2	-	4
	Germany (DFG)	-	2	-	4
	Switzerland	-	2	-	4
Citric acid	Germany (AGS)	-	2	-	4
	Germany (DFG)	-	2	-	4
	Switzerland	-	2	-	4

| 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

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General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state,	colorless liquid
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	>35
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive	Upper limit: No information available; Lower limit: No information available

limits[%(v/v)]	
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	No information available
Solubility	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available

10 Stability and reactivity

| Stability and reactivity

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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	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. Flammable, its gas or powder, if in contact with air, may form explosive mixtures.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Metal alkoxides, furfuryl alcohol, acetaldehyde, nitric acid, nitrate, nitrite, oxyacid salt halogen and inorganic peroxide.
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)
Glycollic acid 1950mg/kg(Rat)		No information available	0.0071mg/L(Rat)
Lactic acid	3543mg/kg(Rat)	> 2000mg/kg(Rabbit)	No information available
Citric acid	3000mg/kg(Rat)	No information available	No information available
Benzeneacetic acid, α-hydroxy-α-phenyl-	2000mg/kg(Mouse)	No information available	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Water	Not Listed	Not Listed	Not Listed
Glucuronic acid	Not Listed	Not Listed	Not Listed
(+)-tartaric acid	Not Listed	Not Listed	Not Listed
Glycollic acid	Not Listed	Not Listed	Not Listed
L-malic acid	Not Listed	Not Listed	Not Listed

Lactic acid	Not Listed	Not Listed	Not Listed
Citric acid	Not Listed	Not Listed	Not Listed
Sodium 2-hydroxybutyrate	Not Listed	Not Listed	Not Listed
Mandelic acid	Not Listed	Not Listed	Not Listed
Benzeneacetic acid, α-hydroxy-α-phenyl-	Not Listed	Not Listed	Not Listed
2-hydroxyoctanoic acid	Not Listed	Not Listed	Not Listed

Others

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Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Causes serious eye irritation(Category 2)
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	Suspected of damaging fertility or the unborn child(Category 2)
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
Glycollic acid	LC ₅₀ : 114.8mg/L (96h)(Fish)	EC ₅₀ : 44mg/L (48h)(Crustaceans)	ErC ₅₀ : >32mg/L (72h)(Algae)
Mandelic acid	No information available	EC ₅₀ : > 100mg/L (48h)(Crustaceans)	No information available
Lactic acid	LC ₅₀ :130mg/L (96h)(Fish)	EC ₅₀ : > 750mg/L (48h)(Crustaceans)	ErC ₅₀ : 3500mg/L (72h)(Algae)
Citric acid	LC ₅₀ :440mg/L (96h)(Fish)	No information available	No information available

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Glycollic acid	No information available	NOEC:	NOEC: 10mg/L(Algae)
		4.4mg/L(Crustaceans)	

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
(+)-tartaric acid	Low	Low
Glycollic acid	Low	Low
L-malic acid	Low	Low
Lactic acid	Low	Low

Citric acid	Low	Low
Mandelic acid	Low	Low

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Glucuronic acid	Low	Log Kow=-2.57
(+)-tartaric acid	Low	Log Kow=-1.0017
Glycollic acid	Low	Log Kow=-1.11
L-malic acid	Low	Log Kow=-1.26
Lactic acid	Low	Log Kow=-0.6
Citric acid	Low	Log Kow=-1.7
Mandelic acid	Low	Log Kow=0.62

| Mobility in soil

Component	log Koc	Remark
(+)-tartaric acid	0.000	
Glycollic acid	< 1.4	25 °C
L-malic acid	0.000	
Lactic acid	< 1.32	
Citric acid	1.000	
Mandelic acid	1.000	

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	2810
UN proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S.
Transport hazard class	6.1

Transport subsidiary hazard class	None
Packing group	П
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	2810
UN proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	п

UN-ADR

UN number	2810
UN proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	п

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 Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. 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.

15 Regulatory information

International chemical inventory

Component	Α	В	С	D	E	F	G	Н	I	J	K	L	M
Water	√	√	√	√	√	√	√	√	√	√	√	√	1
Glucuronic acid	√	√	√	×	√	×	×	×	√	×	×	√	1
(+)-tartaric acid	√	√	√	√	√	√	√	√	√	√	√	√	√
Glycollic acid	√ √	√	1										

L-malic acid	√	√	√	√	√	√	√	√	√	√	×	√	√
Lactic acid	√	√	√	√	√	√	√	√	√	√	√	√	√
Citric acid	√	√	√	√	√	√	V	√	√	√	√	√	√
Sodium 2-hydroxybutyrate	×	√	×	×	×	×	×	×	×	×	×	√	√
Mandelic acid	√	V	V	V	√	√	√	√	√	×	×	V	√
Benzeneacetic acid, α-hydroxy-α-phenyl-	V	V	√	V	√	√	√	√	√	×	√	√	√
2-hydroxyoctanoic acid	×	√	×	×	V	×	V	×	√	×	×	×	√

- [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	Α	В	С
Water	×	×	×
Glucuronic acid	×	×	×
(+)-tartaric acid	×	×	×
Glycollic acid	×	×	×
L-malic acid	×	×	×
Lactic acid	×	×	×
Citric acid	×	×	×
Sodium 2-hydroxybutyrate	×	×	×
Mandelic acid	×	×	×
Benzeneacetic acid, α-hydroxy-α-phenyl-	×	×	×
2-hydroxyoctanoic acid	×	×	×

- [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
Water	×	×	×	×	×	×	×	×
Glucuronic acid	×	×	×	×	×	×	×	×

(+)-tartaric acid	×	×	×	×	×	×	×	×
Glycollic acid	×	×	×	×	×	×	×	×
L-malic acid	×	×	×	×	×	×	×	×
Lactic acid	×	×	×	×	×	×	×	×
Citric acid	×	×	×	×	×	×	×	×
Sodium 2-hydroxybutyrate	×	×	×	×	×	×	×	×
Mandelic acid	×	×	×	×	×	×	×	×
Benzeneacetic acid, α-hydroxy-α-phenyl-	×	×	×	×	×	×	×	×
2-hydroxyoctanoic acid	×	×	×	×	×	×	×	×

- [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	2025/10/14
Revision Date	-
Reason for revision	-

Reference

- $[1] \qquad \text{IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.} \\$
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$
- [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

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic

EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	RespiratoryProtective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

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.