## **Safety Data Sheet**

# Sulfuric acid titration solution

Version: V2.0.0.1

Report No.: BWZ8495-2016-MSDS-US

Creation Date: 2025/10/14

Revision Date: -



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

1 Identification
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## | Product identifier

Product Name	Sulfuric acid titration solution	
	BWZ8495-2016	
	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
Emergency	onone	number		J-30 IU3070

2 Hazard(s) identification

## Hazard classification according to 29 CFR 1910.1200

According to OSHA HCS-2024, not classified as a hazardous chemical.

### | Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

## | Hazard statements

d Statements			
Hazard statements	Not applicable		

### | Precautionary statements

Prevention

Prevention	Not applicable	
◆ Response		
Response	Not applicable	
◆ Storage		
Storage	Not applicable	
◆ Disposal		
Disposal	Not applicable	
Otherhemende		

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# 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 temporary discomfort following direct contact with the eye.
A F. C	

Environmental hazards

Please refer to 12th chapter of SDS.

# 3 Composition/information on ingredients

## Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Sulphuric acid	7664-93-9	231-639-5	0.098
Water	7732-18-5	231-791-2	99.902

# 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 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,

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container.

		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.			
Мо	st important symptoms/e	ffects, acute and delayed			
1	Substance accumulation, in the human body, may occur and may cause some concern following repeated o long-term occupational exposure.				
Ind	lication of any immediate	medical attention and special treatment needed			
1	Treat symptomatically.				
2	Symptoms may be delayed.				
5	Fire-fighting measure	es			
Ext	tinguishing media				
Sui	table extinguishing media	Use extinguishing media suitable for surrounding area.			
	Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.			
S	pecific hazards arising fr	om the substance or mixture			
1	Development of hazardous	combustion gases or vapor possible in the event of fire.			
2	May expansion or decompo	se explosively when heated or involved in fire.			
Sp	ecial protective equipme	nt and precautions for fire-fighters			
1	As in any fire, wear self-con protective gear.	tained breathing apparatus (MSHA/NIOSH approved or equivalent) and full			
2	Fight fire from a safe distant	ce, with adequate cover.			
3	Prevent fire extinguishing w	rater from contaminating surface water or the ground water system.			
6	Accidental release m	neasures			
Pe	rsonal precautions, prote	ctive equipment and emergency procedures			
1	Use personal protective equ	uipment,do not breathe gas/mist/vapour/spray.			
2	Ensure adequate ventilation discharges.	. Remove all sources of ignition. Take precautionary measures against static			
3		areas. Keep people away from and upwind of spill/leak.			
En	vironmental precautions				
1	Prevent further leakage or s	spillage if safe to do so.			
2	Discharge into the environment must be avoided.				
Me	thods and materials for c	ontainment and cleaning up			
1	Cut off the source of the lea	ık as much as possible.			
2	Keep leaks in a ventilated place.				
3	Absorb spilled material in dibunding.	ry sand or inert absorbent. In case of large amount of spillage, contain a spill by			

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

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# 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.
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
Sulphuric acid	Japan - JSOH(2024–202 5)	-	-	-	-
	Permissible exposure standards for workers in the workplace	-	1	-	2
	Australia	-	1	-	3
	Canada - Ontario	-	0.2	-	-
	European Union	-	0.05	-	-
	New Zealand	-	0.1	-	-

## | 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	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
Hand protection	In general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
Skin and body protection	In general situation, skin and body protection are not needed.

# 9 Physical and chemical properties and safety characteristics

# | Physical and chemical properties

I manage and the character by the	
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 limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
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	No information available
coefficient	
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

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  Conditions to avoid	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Incompatible materials	Incompatible materials, heat, flame and spark.  Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal
moompanoie materiais	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 <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Sulphuric acid	2140mg/kg(Rat)	No information available	No information available

# | Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Sulphuric acid	Category 1(Remark 1)	Category K	Not Listed
Water	Not Listed	Not Listed	Not Listed

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Remark 1: see Acid mists

## Others

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Skin corrosion/irritation	Based on available data, the classification criteria are not met		
Serious eye damage/irritation	Based on available data, the classification criteria are not met		
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

Com	ponent	Fish	Crustaceans	Algae or other aquatic plants
Sulph	uric acid	LC <sub>50</sub> : 16mg/L (96h)(Fish)	No information available	No information available

## | Chronic aquatic toxicity

Chronic aquatic toxicity No information available

# | Persistence and degradability

Component Persistence (water/soil)		Persistence (air)
Sulphuric acid	Low	Low

## | Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Sulphuric acid	Low	Log Kow=-1.38

# Mobility in soil

Component	Component log Koc Re	
Sulphuric acid	0.00	20 ℃

# 13 Disposal considerations

## | Disposal considerations

Waste chemicals	micals 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.				

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# 14 Transport information

#### Label and Mark

Transporting Label | Not applicable

#### IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### IATA-DGR

IATA-DGR | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### 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** 

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
Sulphuric acid	<b>√</b>	<b>√</b>	√	<b>√</b>	<b>√</b>	√	√	√	√	<b>√</b>	<b>√</b>	<b>√</b>	
Water	√	√	√	√	√	√	√	√	√	√	√	√	<b>√</b>

- [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
Sulphuric acid	×	×	×
Water	×	×	×

- [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
Sulphuric acid	×	√	√	√	√	√	√	×
Water	×	×	×	×	×	×	×	×

- [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:

- " $\sqrt{\phantom{a}}$ " 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/.
- [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

CAS	Chemical Abstracts Service	UN	The United Nations	
CAS	Chemical Abstracts Service	ON	THE Office Nations	

PC-STEL Short term exposure limit OECD Organization for Economic Co-operation and Development

PC-TWA Time Weighted Average IMDG- International Maritime Dangerous Goods CODE

Maximum Allowable Concentration

Predicted No Effect Concentration

No Observed Effect Concentration

Derived No Effect Level

$LC_{50}$	Lethal Concentration 50%	NFPA	National Fire Protection Association
$LD_{50}$	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	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

CODE

IARC

ICAO

IATA

**ACGIH** 

#### Disclaimer

MAC

DNEL

**PNEC** 

NOEC

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.