### **Safety Data Sheet**

### **Gluconic Acid**

Version: V2.0.0.1

Report No.: BWJ4138-2016-MSDS-US

Creation Date: 2025/09/17

Revision Date: -



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

### | Product identifier

Product Name	Gluconic Acid
Cat No.	BWJ4138-2016
CAS No.	526-95-4
EC No.	208-401-4
Molecular Formula	C6H12O7

### 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 p	hone number	010-58103678
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2 Hazard(s) identification

### Hazard classification according to 29 CFR 1910.1200

Skin corrosion/irritation	Category 1C
Serious eye damage/irritation	Category 1

### Label elements

Laborotomonto	
Hazard pictograms	
Signal word	Danger

### Hazard statements

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

### | Precautionary statements

### Prevention

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.
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.
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### Disposal

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

### Other hazards

Not applicable.

No information available

### | Hazard description

Physical and chemical hazards

♦ Health hazards	
Inhaled	Corrosive product can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	The product can cause severe skin burns following direct contact with the skin.
Eye	Redness.

#### Environmental hazards

Please refer to 12th chapter of SDS.

# 3 Composition/information on ingredients

### Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
D-gluconic acid	526-95-4	208-401-4	49.5

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### 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).	
Skin contact	Rinse skin with plenty of water or shower.	
Ingestion	Rinse mouth.	
Inhalation	Fresh air, rest.	
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**

Suitable extinguishing media	Small fire: dry chemical, CO <sub>2</sub> or water spray; Large fire: dry chemical, CO <sub>2</sub> ,	
	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

- 1 Fire may produce irritating, poisonous or corrosive gases.
- 2 Development of hazardous combustion gases or vapor possible in the event of fire.
- 3 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.

### 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
  Do not touch or walk through spilled material.
  Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
  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

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	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

IVIC	methods and materials for containment and cleaning up			
1	Do not touch or cross spills.			
2	It is recommended that emergency personnel wear a self-contained breathing apparatus with positive pressure and wear anti-corrosion clothing.			
3	3 Transfer to a tank truck or special collector with a corrosion-resistant pump.			
4	Do not touch broken containers and spills before putting on appropriate protective clothing.			
5	Cut off the source of the leak as much as possible.			
6	Keep leaks in a ventilated place.			
7	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.			
8	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.			
9	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in			

### Handling and storage

container.

### 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.

### Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limit values

Occupational Exposure limit	No relevant regulations
values	

### | 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 acid and alkali resistant chemical protective clothing.	

# 9 Physical and chemical properties and safety characteristics

### | Physical and chemical properties

1 Joseph and arrestment by a bost and		
Appearance (physical state, color, etc.)	In colorless to light yellow transparent liquid	
Odor	微弱的特征性酸味	
Odor threshold	No information available	
рН	<=2 (Strong acid)	
Melting point/freezing point(°C)	131	
Initial boiling point and boiling range(°C)	>35	
Flash point(Closed cup,°C)	Not applicable	
Evaporation rate	No information available	
Flammability	Not flammable	
Upper/lower explosive limits[%(v/v)]	Upper limit : Not applicable ; Lower limit : Not applicable	
Vapor pressure	1.09E-07Pa ( 25°C )	
Vapor density(Air = 1)	No information available	
Relative density(Water=1)	1.23	
Solubility	1000g/L ( 25°C )	
n-octanol/water partition coefficient	-1.87 ( estimated )	
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	No information available.	
Conditions to avoid	Incompatible materials, heat, flame and spark.	
Incompatible materials	No information available.	
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products	

products should not be produced.

### 11 Toxicological information

### Acute toxicity

Acute toxicity | No information available

### | Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
D-gluconic acid	Not Listed	Not Listed	Not Listed

### Others

D-gluconic acid(Component)		
Skin corrosion/irritation		
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

Acute aquatic toxicity No information available

### | Chronic aquatic toxicity

Chronic aquatic toxicity | No information available

### | Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
D-gluconic acid	Low	Low

### | Bioaccumulative potential

Component	Bioaccumulative potential	Comments
D-gluconic acid	Low	Log Kow=-1.87

### | Mobility in soil

Component	log Koc	Remark
D-gluconic acid	1.000	

# 13 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.

# 14 Transport information

### Label and Mark

**Transporting Label** 



### IMDG-CODE

UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport hazard class	8
Transport subsidiary hazard	None
class	
Packing group	ш
Marine pollutant ( Yes or no )	No

### IATA-DGR

UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport hazard class	8
Transport subsidiary hazard	None
class	
Packing group	ш

### UN-ADR

UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport hazard class	8
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

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#### **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	A	В	С	D	E	F	G	Н	I	J	K	L	M
D-gluconic acid	√	√	√	√	√	√	<b>√</b>	√	√	<b>√</b>	<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
D-gluconic 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
D-gluconic 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:

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

### 16 Other information

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#### Information on revision

Creation Date	2025/09/17
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

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 <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	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	Respiratory Protective Equipment
ED	Endocrine dis ruptor	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.