



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

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

1.1. Product Identifier

Product Name: Gluconic Acid 50%
CAS #: 526-95-4
EC#: 208-401-4
Product Code: 71410, 71412, 71414
Synonyms: 2,3,4,5,6-Pentahydroxycaproic Acid
INCI Name: Gluconic Acid

1.2. Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Chelating agent in foods, cleaning applications, electroplating, concrete admixtures; Acidulant in foods

1.3. Details of the Supplier of the Safety Data Sheet

Company Name: PMP Fermentation Products, Inc.
900 NE Adams Street
Peoria, Illinois 61603, USA

Telephone: 1-309-637-0400 8 am – 4 pm CST M-F
Fax: 1-309-637-9302
E mail: sales@pmpinc.com

1.4. Emergency Contact

In case of Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC Day or Night
Chemtrec: 1-(800) 424-9300

Section 2: Hazards Identification

2.1. Classification of the Substance or Mixture

Classification under CLP: This product has no classification under CLP

GHS Classification		
<i>Health</i>	<i>Environmental</i>	<i>Physical</i>
No classification	Not classified	Not classified



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

2.2. Label Elements

GHS Labels: No pictograms required.

OSHA Labels: None

Signal word:

Hazard Statement None

Precautionary Statement:

Prevention

P280: Wear protective gloves and eye/face protection

P264: Wash with plenty of soap and water thoroughly after handling.

Response:

P302+352: IF ON SKIN: Wash with plenty of water

P332+ P313: If skin irritation occurs: Get medical advice

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P337+P313: If eye irritation persists. Get medical advice

Hazards Not Otherwise Classified: None

2.3. Other Hazards

PBT: This product is not identified as a PBT substance

Section 3: Composition/Information on Ingredients

3.1. Substances

Chemical Identity: Gluconic Acid, 50%

Component	Classification	Concentration
Gluconic Acid		
No. CAS 526-95-4	No classification	50%
Water		
No CAS 7732-18-5	No classification	50%



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

Section 4: First Aid Measures

4.1. Description of First Aid Measures

- Skin:** Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, seek medical attention.
- Eyes:** Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. If irritation persists, seek medical attention.
- Ingestion:** Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do so by a physician or PCC.
- Inhalation:** Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration and seek medical attention.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

- Skin:** May cause irritation and redness for susceptible individuals.
- Eyes:** May cause mild irritation. Eyes may water profusely.
- Ingestion:** May cause irritation if large amounts are swallowed. Nausea and stomach pain may occur. There may be vomiting and diarrhea.
- Inhalation:** May cause respiratory irritation in susceptible individuals. May cause shortness of breath, sneezing and coughing.

Delayed/Immediate effects: None

4.3. Indication of Any Immediate Medical Attention and Special Treatment Need

Eye wash stations should be available

Section 5: Fire Fighting Measures

5.1. Extinguishing Media

Water, carbon dioxide, foam, halogen



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

5.2. Special Hazards Arising from the Substance or Mixture

Exposure Hazards: In combustion, emits toxic fumes of carbon dioxide/carbon monoxide.

5.3. Advice for Fire Fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear suitable protective clothing. Refer to section 8.

6.2. Environmental Precautions

Do not discharge into drains or rivers.

6.3. Methods and Material for Containment and Cleaning up

Collect as much as possible for use or disposal in a properly labeled container. Flush remainder into normal drainage with copious amounts of water.

6.4. Reference to Other Sections

Refer to sections 8 and 13

Section 7: Handling and Storage

7.1. Precautions for Safe Handling

Wear suitable protective clothing. Ensure there is sufficient ventilation in the area.



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Product must be stored above 60°F.

Suitable Packaging: Paper, plastic or poly lined bags or drums.

7.3. Specific End Use(s)

Specific End Use(s): No special requirement

Section 8: Exposure Controls/Personal Protection

8.1. Control Parameters

None

8.2. Exposure Controls

Engineering measures:	Provide sufficient ventilation of the area
Respiratory protection:	Respirator with particle filter
Hand protection:	Protective gloves
Eye protection:	Safety goggles. Provide eye wash stations
Skin protection:	Protective clothing. Provide safety shower
Environmental:	No special requirement

Section 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

State:	Liquid
Color:	Light Yellow
Odor:	Slight acetic
Odor Threshold:	Data not available
pH:	1.1 – 1.5
Melting Point/Range:	Not applicable
Boiling Point:	102 °C
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability:	Not applicable
Upper Explosion Limit:	Not applicable
Lower Explosion Limit:	Not applicable
Vapor Pressure:	5×10^{-21} mmHg/ 6.7×10^{-22} kPa @ 25°C
Vapor Density:	unknown



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

Specific Gravity:	1.2
Solubility in Water:	Complete
Partition Coefficient:	Not available
Auto-Ignition Temperature:	Not applicable
Decomposition Temperature:	Not available
Freezing Point:	< 60 °F
Viscosity:	32 Cp @ 25°C
Oxidizing:	Non-oxidizing
Molecular Weight:	196.16

9.2. Other Information

Other Information: Not applicable

Section 10: Stability and Reactivity

10.1. Reactivity

Stable under recommended transport and storage conditions

10.2. Chemical Stability

Stable under normal conditions

10.3. Possibility of Hazardous Reactions

Hazardous reactions will not occur under normal conditions

10.4. Conditions to Avoid

Direct sunlight, Temperatures less than 60°F

10.5. Incompatible Materials

Materials to Avoid: Strong Oxidizers

10.6. Hazardous Decomposition Products

In combustion, emits toxic fumes of carbon dioxide/carbon monoxide.



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

Section 11: Toxicological Information

11.1. Information of Toxicological Effects

Toxicity Values:

Route	Species	Test	Value	Units
Oral	Rat	LD50	>2000	mg/kg
Intravenous	Rabbit	LD50	7630	mg/kg

Symptoms/Routes of Exposure

Skin Contact: May cause irritation and redness for susceptible individuals.

Eyes: May cause mild irritation. Eyes may water profusely.

Ingestion: May cause irritation if large amounts are swallowed. Nausea and stomach pain may occur. There may be vomiting and diarrhea.

Inhalation: May cause respiratory irritation in susceptible individuals. May cause shortness of breath, sneezing and coughing.

Delayed/Immediate effects: None

Carcinogenicity:	Not a carcinogen (IARC, ACGIH, NTP, OSHA)
Mutagenicity:	Not applicable
Teratogenicity:	Not applicable
Reproductive Toxicity:	Not applicable

Section 12: Ecological Information

12.1. Toxicity

Ecotoxicity Values:

Species	Test	Value	Units
Fish	96H LC50	> 1000.0	mg/L
Daphnid	48H LC50	> 1000.0	mg/L
Green Algal	96H EC50	> 1000.0	mg/L
Fish	ChV*	> 100.0	mg/L
Daphnid	ChV	> 100.0	mg/L
Algal	ChV	> 100.0	mg/L
Bacteria	EC50	> 5000.0	mg/L



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

- Chronic Value

12.2. Persistence and Degradability

Readily and rapidly biodegradable

12.3. Bioaccumulative Potential

Product does not bioaccumulate

12.4. Mobility in Soil

Accidental spillage may lead to penetration in the soil and groundwater, however; there is no evidence that this would cause adverse ecological effects.

12.5. Results of PBT and vPvB Assessment

PBT Identification: This substance is not identified as a PBT substance.

12.6. Other Adverse Effects

Not expected to cause significant environmental impact.

Section 13: Disposal Considerations

13.1. Waste Treatment Methods

Disposal Operations: In accordance with applicable regulations. Normally can be flushed down sewers.

Recovery Operations: No information available

Disposal of Packaging: Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licensed contractor.

Section 14: Transport Information

Transport Class: This product does not require a classification for transport.

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/CAO	Not Dangerous Goods



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

Section 15: Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance/Mixture

US Regulations

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Gluconic Acid

CAS-No.
526-95-4

New Jersey Right To Know Components

Gluconic Acid

CAS-No.
526-95-4

Rhode Island Right To Know Components

Not Listed

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA

This product is listed on TSCA

International Regulations

Europe

Specific Regulations:

Exemption from registration under REACH in accordance with Annex V. Commission Decision 96/335/EC establishing an inventory and a common nomenclature of



SAFETY DATA SHEET

US Version HAzCom 2012

GLUCONIC ACID 50%

ingredients employed in cosmetic products (INCI). Council Directive 76/768/EEC on the approximation of the laws of Member States relating to cosmetic products. Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products.

Directive 96/82/EC does not apply

Europe Risk Phrases *not classified in Europe*

Europe Safety Phrases *not classified in Europe*

Inventory Listing

Australia	AICS	Yes
Canada	DSL	Yes
Canada	WHMIS	No
China	IECSC	Yes
Europe	EC No	208-401-4
Japan	ENCS	(2) 14-09
Korea	ECL	KE-17664
Philippines	PICCS	Yes

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other Information

Other Information: This safety data sheet is prepared in accordance with OSHA HazCom 2012 and Brazil's ABNT/NBR 14725

There are no exposure levels set for the specific product. The following levels should be adhered to based on US regulations:

Legal Disclaimer: The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, PMP Fermentation Products, Inc. cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.

Revision Date: 03/10/2023