



SAFETY DATA SHEET

(REACH Regulation (EC) N° 1907/2006 – N° 453/2010)

GLUCONIC ACID 50%

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

1.1. Product Identifier

Product Name:	Gluconic Acid 50%
REACH Registered Name:	Gluconic Acid 50%
REACH registered number:	Exemption under Annex V
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

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

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



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

2.2. Label Elements

Label elements: This product has no label elements under CLP or GHS

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

Section 4: First Aid Measures

4.1. Description of First Aid Measures

Skin: Wash thoroughly with soap and water.

Eyes: Flush immediately with water or physiological saline for 15 minutes. Get prompt medical attention.

Ingestion: Get medical attention if adverse effects occur.

Inhalation: If adverse effects occur, get 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.



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Delayed/Immediate effects: None

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

Immediate/Special Treatment: Eye wash stations should be available

Section 5: Fire Fighting Measures

5.1. Extinguishing Media

Extinguishing Media: Water, carbon dioxide, foam, halogen

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

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

Personal Precautions: Wear suitable protective clothing. Refer to section 8.

6.2. Environmental Precautions

Environmental Precautions: Do not discharge into drains or rivers.



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6.3. Methods and Material for Containment and Cleaning up

Clean-Up Procedures: 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

Reference to Other Sections: Refer to sections 8 and 13

Section 7: Handling and Storage

7.1. Precautions for Safe Handling

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

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a cool, well-ventilated area. Keep away from direct sunlight. Avoid contact with water and humidity.

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

Workplace Exposure Limits:

Respirable Dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	4 mg/m ³	-
USA			5 mg/m ³	



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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
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
Specific Gravity:	1.2
Solubility in Water:	Complete
Auto-Ignition Temperature:	Not applicable
Freezing Point:	< 60 °F; < 15.6°C
Viscosity:	32 Cp @ 25°C
Oxidizing:	Non-oxidizing
Molecular Weight:	196.16

9.2. Other Information

Other Information: Not applicable



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Section 10: Stability and Reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport and storage conditions

10.2. Chemical Stability

Chemical Stability: Stable under normal conditions

10.3. Possibility of Hazardous Reactions

Hazardous Reactions: Hazardous reactions will not occur under normal conditions

10.4. Conditions to Avoid

Conditions to Avoid: Direct sunlight,

10.5. Incompatible Materials

Materials to Avoid: Strong Oxidizers

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products: In combustion, emits toxic fumes of carbon dioxide/carbon monoxide.

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.



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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 applicable
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

- Chronic Value

12.2. Persistence and Degradability

Persistence and Degradability: Readily and rapidly biodegradable

12.3. Bioaccumulative Potential

Bioaccumulative Potential: Product does not bioaccumulate

12.4. Mobility in Soil

Mobility: Soluble in water

12.5. Results of PBT and vPvB Assessment

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



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12.6. Other Adverse Effects

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.

Section 15: Regulatory Information

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

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 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*



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15.2. Chemical Safety Assessment

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 Commission Regulation (EU) No 453/2010

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.

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