SAFETY DATA SHEET

(REACH Regulation (EC) Nº 1907/2006 – Nº 453/2010)

SODIUM GLUCONATE

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

1.1. Product Identifier

Product Name:	Sodium Gluconate
REACH Registered Name:	Sodium Gluconate
REACH registered number:	Exemption under Annex V
CAS #:	527-07-1
EC#	208-407-7
Product Code:	71111,71112, 71115, 71120
Synonyms:	Sodium Salt of gluconic acid, Sodium 2,3,4,5,6, pentahydroxy-hexanoate
INCI Name:	Sodium Gluconate

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

2.2. Label Elements

Label elements: This product has no label elements

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: Sodium Gluconate

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.

Delayed/Immediate effects: Long-term inhalation of excessive dust may cause delayed lung injury.

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. Dust in air can be an explosion hazard.

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. Do not create dust.

6.2. Environmental Precautions

Environmental Precautions: Do not discharge into drains or rivers.

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. Avoid generating dust.

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	

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:	Granular powder
Color:	White to tan
Odor:	Odorless
pH:	6.8 – 7.2 (10% aq. Solution)
Melting Point/Range:	192 – 202°C
Boiling Point:	Not applicable
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability:	Not applicable
Upper Explosion Limit:	Not applicable
Lower Explosion Limit:	Not applicable
Vapor Pressure:	7.23×10^{-18} mmHg/ 1×10^{-18} kPa @ 25°C
Vapor Density:	unknown
Relative Density:	945 kg/m^3 granular; 705 kg/m^3 powder
Solubility in Water:	Highly soluble, 5.9×10^5 mg/L @ 25°C
Auto-Ignition Temperature:	Not applicable
Decomposition Temperature:	> 210°C
Viscosity:	Not applicable
Oxidizing:	Non-oxidizing
Molecular Weight:	218.13

9.2. Other Information

Other Information: Not applicable

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, moist air and humidity

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.

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: Long-term inhalation of excessive dust may cause delayed lung injury.

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.

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. This product is not dangerous, not hazardous, and not restricted for transport by air

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*

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:

Total inhalable dust (8 hour TWA): 15 mg/m^3

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