



## **SAFETY DATA SHEET**

(REACH Regulation (EC) N° 1907/2006 – N° 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: Chemistry Connection  
253 Sturgis Road  
Conway, AR 72034  
USA  
Telephone: (501) 470-9689 8 am – 5 pm CST M-F  
Email: [contact@thechemistryconnection.com](mailto:contact@thechemistryconnection.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

GHS Classification		
<i>Health</i>	<i>Environmental</i>	<i>Physical</i>
No Classification	No Classification	No Classification

**SAFETY DATA SHEET**  
(REACH Regulation (EC) N° 1907/2006 – N° 453/2010)  
**SODIUM GLUCONATE**

**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  
Composition Sodium Gluconate – 100%

**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.

**SAFETY DATA SHEET**  
(REACH Regulation (EC) N° 1907/2006 – N° 453/2010)  
**SODIUM GLUCONATE**

**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.



## **SAFETY DATA SHEET**

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

### **SODIUM GLUCONATE**

#### **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 x10 <sup>-18</sup> mmHg/ 1 x 10 <sup>-18</sup> kPa @ 25°C
Vapor Density:	unknown
Relative Density:	945 kg/m <sup>3</sup> granular; 705 kg/m <sup>3</sup> powder
Solubility in Water:	Highly soluble, 5.9 x 10 <sup>5</sup> mg/L @ 25°C
Partition Coefficient:	Data not available
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

**SAFETY DATA SHEET**  
(REACH Regulation (EC) N° 1907/2006 – N° 453/2010)  
**SODIUM GLUCONATE**

**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

**SAFETY DATA SHEET**  
(REACH Regulation (EC) N° 1907/2006 – N° 453/2010)  
**SODIUM GLUCONATE**

**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

**SAFETY DATA SHEET**  
(REACH Regulation (EC) N° 1907/2006 – N° 453/2010)  
**SODIUM GLUCONATE**

**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



## **SAFETY DATA SHEET**

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

### **SODIUM GLUCONATE**

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<sup>3</sup>

Legal Disclaimer: The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, Chemistry Connection 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: 05/07/15