

---

# SAFETY DATA SHEET

## Sodium Gluconate

---

### 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

**Synonyms:** 2,3,4,5,6-Pentahydroxycaproic acid sodium salt, D-Gluconate sodium salt, D-Gluconic acid sodium salt, Sodium D-gluconate

**Other means of identification:** CAS No. 527-07-1  
EINECS No: 208-407-7

**Recommended use of the chemical and restrictions on use:**

General use reagent

**Supplier Details:**

**Global Chemical Resources**

1925 Nebraska Avenue

Toledo, OH 43607

Tel: 419-242-1004

**Emergency Contact:** CHEMTREC: 1.800.424.9300 (USA)

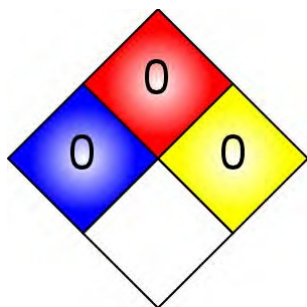
---

### 2. HAZARDS IDENTIFICATION

**OSHA Hazards:**

No OSHA hazards

**NFPA**





### GHS Classification(s)

Not a dangerous substance/mixture according to GHS standards.

### Other hazards which do not result in classification:

### Potential Health Effects:

Organ	Description
Eyes	Can irritate eyes.
Ingestion	Can be harmful if ingested.
Inhalation	Can be harmful if inhaled. Possible respiratory tract irritation can occur.
Skin	Can cause skin irritation if exposed.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<b>Chemical identity:</b>	Sodium gluconate
<b>Common name / Synonym:</b>	2,3,4,5,6-Pentahydroxycaproic acid sodium salt, D-Gluconate sodium salt, D-Gluconic acid sodium salt, Sodium D-gluconate
<b>CAS number:</b>	527-07-1
<b>EINECS number:</b>	208-407-7

% Weight	Material	CAS
100	Sodium gluconate	527-07-1

## 4. FIRST AID MEASURES

### General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### Skin

Wash skin with soap and copious amounts of water.

### Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

### Eyes

Flush eyes with water as a precaution.

### Ingestion

Rinse mouth with plenty of water. Never give anything by mouth to an unconscious person. Contact a physician.



## 5. FIRE FIGHTING MEASURES

### Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides and Sodium oxides are expected to be, under fire conditions, the primary hazardous decomposition products.

### Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

Do not inhale vapors, mist, or gas. Avoid dust formation.

### Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

### Methods and materials for containment and cleaning up:

Sweep up and place material in a convenient waste disposal container. Keep container closed.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Provide proper exhaust ventilation system in areas where dust forms. Take normal fire prevention measures.

### Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, dry and well-ventilated place.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters, e.g., occupational exposure limit values or biological limit values:

#### Occupational Exposure Limits

Component	Source	Type	Value	Note
Sodium gluconate	/		No exposure limit.	

### Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.



**Individual protection measures, such as personal protective equipment:**

**Respiratory protection:**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

**Skin and body protection:**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance (physical state, color, etc.)</b>	Solid. (Solid crystalline powder.)
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Specific data not available
<b>pH</b>	6.5 - 8
<b>Freezing point</b>	Melting Point: 170 - 175 °C (338 - 347 °F)
<b>Initial boiling point and boiling range</b>	Specific data not available
<b>Flash point</b>	Specific data not available
<b>Evaporation rate</b>	Specific data not available
<b>Flammability (solid, gas)</b>	Not flammable or combustible
<b>Upper / Lower flammability or explosive limits</b>	Specific data not available
<b>Vapor pressure</b>	Specific data not available
<b>Vapor Density</b>	Specific data not available
<b>Relative Density</b>	Specific data not available
<b>Solubility(ies)</b>	Specific data not available
<b>Partition coefficient n-octanol/water(ies)</b>	Specific data not available
<b>Auto-ignition temperature</b>	> 200 °C (> 392 °F)
<b>Decomposition temperature</b>	196 °C - 198 °C
<b>Formula (SODIUM GLUCONATE)</b>	C6H11NaO7
<b>Molecular Weight (SODIUM GLUCONATE)</b>	218.14 g/mol



## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No data available
<b>Conditions to avoid (e.g., static discharge, shock or vibration)</b>	No data available
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	Carbon oxides and Sodium oxides are expected to be, under fire conditions, the primary hazardous decomposition products.
<b>Thermal decomposition (Sodium gluconate)</b>	196 deg. C - 198 deg. C

## 11. TOXICOLOGICAL INFORMATION

· Sodium gluconate 527-07-1

### Product Summary:

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through single or repeated exposure. No data available to designate product as an aspiration hazard.

### Acute Toxicity:

No data available	LD50 Oral	LD50 Dermal	LC50 Inhalation
-------------------	-----------	-------------	-----------------

### Irritation:

#### Eyes

No data available.

#### Respiratory or Skin Sensitization

No data available

#### Skin

No data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.



OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Other Hazards

Organ	Description
Eyes	Can cause eye irritation.
Ingestion	Can be harmful if swallowed.
Inhalation	Can be harmful if inhaled. Can lead to irritation of respiratory tract.
Skin	Can be deemed harmful if absorbed through skin. Can cause irritation of the skin.

---

## 12. ECOLOGICAL INFORMATION

· Sodium gluconate 527-07-1

---

#### Ecotoxicity (aquatic and terrestrial, where available):

##### Ecotoxicity

No data available

#### Persistence and degradability:

No data available

#### Bioaccumulative potential:

No data available

#### Other adverse effects:

No data available

---

## 13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Recycle to process, if possible. Consult your local or regional authorities.

---

## 14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number	Not a dangerous good.
-----------	-----------------------

Revision Date: 5-1-2015

Revision Number: 1.0

**IMDG**

UN-Number: Not a dangerous good.

Marine pollutant: No

**IATA**

UN-Number: Not a dangerous good.

---

**15. REGULATORY INFORMATION**

Safety, health and environmental regulations specific for the product in question:

**OSHA Hazards**

No OSHA hazards

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

**SARA 302 Components**

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

**SARA 313 Components**

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

**CERCLA**

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

**Massachusetts Right To Know Components**

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

**Pennsylvania Right To Know Components**



Sodium gluconate CAS-No. 527-07-1

#### **New Jersey Right To Know Components**

Sodium gluconate CAS-No. 527-07-1

#### **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.

---

## **16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS**

#### **Disclaimer**

Global Chemical Resources believes that the information on this MSDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, Global Chemical Resources does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS information may not be applicable. Information is correct to the best of our knowledge at the date of the MSDS publication.