

Safety Data Sheet

1. IDENTIFICATION

Product Name:	SODIUM GLUCONATE
Other Names:	Sodium Salt of gluconic acid, Sodium 2,3,4,5,6, pentahydroxy-hexanoate
Recommended Use:	Used as retarding agent of cement. In textile dyeing printing and metal surface water treatment, chelating agent, steel surface cleaning agent, cleaning agent for glass bottle, plating and alumina dyeing industries.
Supplier:	Global Chemie ASCC Limited
Street Address:	88/123 Moo 2 Bangpoo Industrial Estate (North), Phraek Sa Mai, Mueang Samutprakan, Samutprakan 10280
Telephone:	+66 2324 6888
Fax:	+66 2324 6898-99
Emergency phone:	+66 2324 6888 ext.320

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

This product is not classification under Collaborative & law practice (CLP)

Label Elements

No data available.

Other Hazards

No data available.

Hazardous Nature

No data available.

Hazardous Classification

No data available.

Hazardous Statement

No data available.

GHS Pictograms

No data available.

Hazard Statements

No data available.

Precautionary Statements

No data available.

Response Statements

If on skin

No data available.

If inhaled

No data available.

If in eye

No data available.

Storage Statements

No data available.

Disposal Statements

No data available.

Signal Word: No Signal Word

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	UN No.	Proportion (%w/w)
Sodium Gluconate	527-07-1	-	No data available

Molecular Formula: No data available

Molecular weight: 218.132 g/mol

4. FIRST AID MEASURES

For advice, contact Ramathibodi Poison Center (Phone: 1367) or a doctor.

Ingestion

Get medical attention if adverse effects occur.

Eye Contact

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

Skin Contact

Wash thoroughly with soap and water.

Inhalation

If adverse effects occur, get medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed**Ingestion**

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

Eye Contact

May cause mild irritation. Eyes may water profusely.

Skin Contact

May cause irritation and redness for susceptible individuals.

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.

Indication of Any Immediate Medical Attention and Special Treatment Need

Immediate/Special Treatment: Eye wash stations should be available.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing media: Water, carbon dioxide, foam, halogen

Unsuitable: Extinguishing media: No data available.

Special hazards arising from the substances or mixture: In combustion, emits toxic fumes of carbon dioxide/carbon monoxide. Dust in air can be an explosion hazard.

Hazardous combustion products: No data available.

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

6. ACCIDENTAL RELEASE MEASURES.

Emergency Procedures

Wear suitable protective clothing. Refer to section 8. Do not create dust.

Methods and materials for containment and clean up

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

Environmental precautions

Do not discharge into drains or rivers.

7. HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage

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.

Specific End Use(s)

No special requirement

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Occupational Exposure limit values

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

Engineering controls

Provide sufficient ventilation of the area

Personal Protective Equipment

Respiratory Protection: Respirator with particle filter.

Eye Protection: Safety goggles. Provide eye wash stations.

Skin/ Body Protection: Protective clothing. Provide safety shower.

Hand Protection: Protective gloves.

Environmental: No special requirement.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value
Appearance	-	Granular powder
Odour	-	Odorless
pH	-	6.8-7.2 (10% aq. Solution)
Boiling point	°C	No data available
Melting point	°C	192-202
Flash point	°C	No data available

Property	Unit of Measurement	Typical Value
Flammability	-	No data available
Autoignition Temperature	°C	No data available
Decomposition Temperature	°C	> 210
Lower/Upper Flammability Limits	%V	No data available
Density @ 25°C	g/cm³	No data available
Specific Gravity @ 20°C	-	945 kg/m³ granular; 705 kg/m³ powder
Viscosity @ 20°C	cSt	No data available
Vapor pressure @ 25°C	-	7.23 x10 ⁻¹⁸ mmHg/ 1 x 10 ⁻¹⁸ kPa
Vapor density	kPa (Air = 1)	No data available
Evaporation Rate	(n-Butyl acetate = 1)	No data available
Water Solubility @ 25°C	mg/L	Highly soluble, 5.9 x 10 ⁵
Solubility in other solvents Partition coefficient	(n-octanol/water)	No data available
Coefficient of Thermal Expansion	per Deg C	No data available
Color	-	White to tan
Particle characteristic	-	No data available

The values listed are indicative of this product’s physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability
Stable under normal conditions.

Reactivity
Stable under recommended transport and storage conditions.

Possibility of hazardous reactions.
Hazardous reactions will not occur under normal conditions.

Conditions to avoid
Direct sunlight, moist air and humidity.

Incompatible materials
Strong Oxidizers.

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

11. TOXICOLOGICAL INFORMATION

Toxicity Values:

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

Route	Species	Test	Value	Units
Total inhalable dust	-	TWA: 8 hour	15	mg/m ³

Health hazards

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

Skin: May cause irritation and redness for susceptible individuals.

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.

Carcinogenicity: No data available

Reproductive toxicity: No data available.

Teratogenicity: No data available

12. ECOLOGICAL INFORMATION

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

Mobility: Soluble in water.

Persistence/ degradability: Readily and rapidly biodegradable.

Bioaccumulation: Product does not bioaccumulate.

Results of PBT and vPvB Assessment: This substance is not identified as a PBT substance.

Other Adverse Effects: Not expected to cause significant environmental impact.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

Container Disposal

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

Local Legislation

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	Not Regulated	UN. Number	Not Regulated	UN. Number	Not Regulated
Class/Item	Not Regulated	Class/Item	Not Regulated	Class/Item	Not Regulated
Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated

Road and Rail Transport		Marine Transport		Air Transport	
Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated
Packing Group	Not Regulated	Packing Group	Not Regulated	Packing Group	Not Regulated
		Marine Pollutant	Not Regulated		

15. REGULATORY INFORMATION

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.

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

16. OTHER INFORMATION

National Fire Protection Association (USA)	:	No data available
SDS Distribution	:	The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.
Prepared By	:	Quality Control Department / Global Chemie ASCC Limited

Abbreviations:
No data available

References:

- Supplier Material Safety Data Sheets

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer’s knowledge. The document represents the commitment to the company’s responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product for further information, please contact Global Chemie ASCC Limited.