

SAFETY DATA SHEET

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SODIUM GLUCONATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	527-07-1
EC number:	208-407-7
1.2 SYNONYMS	SODIUM GLUCONATE

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void
2.3 Other hazards:	
Inhalation:	May cause irritation to the respiratory tract, with symptoms of bronchitis
Ingestion:	May cause abdominal cramps, nausea, vomiting, diarrhea
Skin Contact:	Slightly irritation
Eye contact:	May cause irritation
Chronic Exposure:	Irritation of eyes, skin and mucous membranes
Aggravation of pre-existing conditions	Persons with pre-existing disorders, impaired respiratory effects of the substance

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 527-07-1 SODIUM GLUCONATE
Identification number(s):	EC number: 208-407-7

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician
After Ingestion	If victim is conscious and alert, give 2-3 glasses water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person.
After skin contact:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician..
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Do not let victim rub eyes. Get medical attention.
After swallowing:	If symptoms persist consult doctor.
4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed	No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media	Use water spray, foam, dry chemical, or carbon dioxide (CO ₂) to extinguish fires involving sodium gluconate.
5.2 Special hazards arising from the substance or mixture	May decompose at high temperatures, releasing harmful gases or vapors.
5.3 Advice for firefighters	Wear self-contained breathing apparatus (SCBA) and full protective gear to avoid exposure to any smoke or fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Wear self-contained breathing apparatus (SCBA) and full protective gear to avoid exposure to any smoke or fumes. Avoid dust formation.
6.2 Environmental precautions:	Avoid release to the environment. Prevent spills from entering waterways, drains, or soil.
6.3 Methods and material for containment and cleaning up:	Use absorbent materials such as sand, clay, or commercially available absorbent pads to soak up the spilled sodium gluconate.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Wear suitable gloves, eye protection, and protective clothing to prevent skin and eye contact.
Information about fire - and explosion protection:	Sodium gluconate is not considered flammable; however, dust may pose a slip hazard. Ensure availability of appropriate extinguishing media (water spray, foam, dry chemical, or CO2) and that personnel are trained in their use
7.2 Conditions for safe storage, including any incompatibilities	stored in a tightly closed container in a cool, dry, and well-ventilated area under nitrogen, protected from moisture and incompatible materials such as strong oxidizing agents, acids, strong bases, and amines.
Requirements to be met by storerooms and receptacles:	Ensure adequate ventilation in storage areas to prevent the accumulation of dust.
Information about storage in one common storage facility:	When storing with other chemicals, ensure that they are compatible to prevent adverse reactions.

7.3 Specific end use(s):	Construction as a concrete admixture. Cleaning products as a chelating agent. Agriculture as a soil conditioner.
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended
8.2 Exposure controls	
Personal protective equipment:	Set up stations equipped with PPE (gloves, goggles, masks) near handling areas to ensure workers can quickly access necessary protective gear.
General protective and hygienic measures:	Wash hands thoroughly after handling and avoid eating, drinking, or smoking in areas where sodium gluconate is handled.
	Respiratory protection: Required.
Protection of hands:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Use gloves made of butyl rubber (butyl) - 0.7 mm coating thickness, chloroprene rubber (CR) - 0.5 mm coating thickness, fluoroelastomer (FKM) - 0.7 mm coating thickness
	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Penetration time of glove material:	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
	Eye protection: Not required

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Yellow green powder
Colour:	Yellow Green

Odour:	odorless
pH-value:	3(1% solution)
Melting point/Melting range:	150°C without melting
Boiling point/Boiling range:	Undetermined.
Flammability (solid, gaseous):	Product is not flammable.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Self-igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard
Explosion limits: Lower:	Not determined
Vapour pressure:	Not applicable.
Density at 20 °C:	1.4 g/cm ³ .
Relative density:	Not determined.
Vapour density:	Not applicable.
Evaporation rate:	Not applicable
Solubility in / Miscibility with-water at 20 °C:	500 g/l Easily soluble.
Partition coefficient:	water: -2.0
Viscosity:	1 to 10 mPa·s
Kinematic:	1.2 to 2.0 mm ² /s.

SECTION 10: Stability and reactivity

10.1 Reactivity	No further relevant information available
10.2 Chemical stability	stable at room temperature
10.3 Possibility of hazardous reactions	No dangerous reactions known.
10.4 Conditions to avoid	No further relevant information available.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition products:	No dangerous decomposition products known

SECTION 11: Toxicological information

11.1 Information on toxicological effects	No information was found for the product
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SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	low LC50 (lethal concentration for 50% of test organisms),relatively safe for aquatic life.
12.2 Persistence and degradability:	Readily biodegradable and low persistence
12.3 Bioaccumulative potential:	low
12.4 Mobility in soil:	High solubility
12.5 Other adverse effects	Excessive amounts may alter the chemical composition of water, Microbial Imbalance, Irritation

SECTION 13: Disposal considerations

13.1 Waste treatment methods	Effectively treated through biological methods
Uncleaned packaging: Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Enzymatic Cleaners, Surfactants, Plant-Based Cleaners, soap solutions.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	Not regulated
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Not regulated
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	Class Not regulated
14.4 Packing group · ADR, IMDG, IATA:	Not regulated
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Not classified as a substance under CLP regulation.
Named dangerous substances	ANNEX I Substance is not listed
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Label Hazard Warning:	Harmful if swallowed or inhaled. Causes irritation to eyes, skin and respiratory tract.
Label Precautions:	Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container closed. <u>Use only with adequate attention.</u>
Label First Aid:	If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If breathing is difficult, give oxygen. In case of contact, immediately flush eye or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.
Product Use:	Electroplating, metal surface washing, aluminum oxidation color.

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