



WEIFANG JIANBAO BIOTECHNOLOGY CO., LTD

According to UN GHS (the 8th revised edition)

Material Safety Data Sheet (MSDS)

Product name:	SODIUM GLUCONATE
Model No.:	/

Written by: Linda
(Linda)

Inspected by: Jose
(Jose)



Issued by: TUV-Laboratory (China) Service of Testing

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Initial Date: Sept. 11, 2019

Revision Date: Sept. 11, 2019

Material Safety Data Sheet

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Section 1 - Product and Company Identification

1.1. Product Identification

Product name: SODIUM GLUCONATE

Molecular formula: $C_6H_{11}NaO_7$

Molecular weight: 218.14

CAS No.: 527-07-1

EC No.: 208-407-7

HS code: 29181600

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses:

1. Used as a steel surface cleaners, glass special cleaning agent.
2. Used as a cement admixture, adding a certain amount of sodium gluconate will increase the plasticity and strength of the concrete, as retardation, namely to postpone the concrete setting time of the initial and final, such as adding 0.15% sodium gluconate it may bring more than 10 times of curing time for fresh concrete, which can maintain the plasticity of concrete, according to the need, a few hours to a few days and without affecting its fastness.
3. Used as a water stabilizer, since sodium gluconate has excellent corrosion and scale effect, is widely used in water stabilizer, such as the petrochemical business cycle cooling water system, low pressure boiler, engine cooling water system treatment chemicals.

Use advised against: Not available

1.3. Details of the manufacturer or applicant

Applicant: WEIFANG JIANBAO BIOTECHNOLOGY CO., LTD

Address: WANSHAN ROAD, ZHULIU INDUSTRIAL PARK,
CHANGLE COUNTY, WEIFANG CITY, SHANDONG, CHINA, 262404

Telephone: +86-15095261846

Post code: 262404

E-mail: sales@sdws-chem.cn

1.4. Emergency telephone number

Emergency telephone: +86-536-6771798

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TUV-Laboratory (China) Service of Testing Co., Ltd.
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Section 2 - Hazard Description

Hazard class and label elements of the product according to GHS (the 8th revised edition):

2.1. GHS Classification of substance or mixture:

Non-hazardous substance or mixture.

2.2. Label elements:

Hazard pictograms: Not applicable.

Signal word: Not applicable.

Hazard statements: Not applicable.

2.3. Other Hazards: None.

Section 3 - Composition / Ingredient Data

3.1. Material:

Chemical Name	CAS #	%(by weight)
SODIUM GLUCONATE	527-07-1	≥98

Section 4 - First Aid Measures

4.1. General advice:

Show this material safety data sheet to the doctor in attendance. After receiving the first-aid measure required, consult a physician if necessary.

Skin contact:

Remove contaminated clothing and shoes. Wash off with mild soap and plenty of water. If skin irritation occurs or persists, consult a physician immediately.

Eyes contact:

Check for and remove any contact lenses, do not rubbing eyes with hand. Provide a readily-accessible eyewash facility and quick-drench safety shower. Occasionally lifting the upper and lower eyelids. Immediately flush eyes with running water, disappear until the chemical residues so far. Get medical attention if irritation occurs.

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Inhalation:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing or if breathing is irregular, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Ingestion:

Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

4.2. Most important acute and delayed symptoms/effects:

The most important known symptoms and effects are described in section 11.

4.3. Immediate / special treatment:

Continue with first aid measures. Treat symptomatically and supportively. Symptoms may be delayed.

Section 5 – Firefighting Measures

5.1. Extinguishing method and extinguishing agent:

Products are not flammable, if this product is involved in a fire:

Suitable extinguishing agents: Use dry sand, dry chemical or CO₂ foam extinguishing. Water spray can be used to cool fire exposed containers/materials. Use extinguishing media most appropriate for the surrounding fire.

Unsuitable extinguishing agents: None.

5.2. Special hazards arising from the substance or mixture:

If this product is involved in a fire, the following can be released:

Sodium oxides, carbon oxides.

5.3. Fire precautions and measures:

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Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing in the upwind. As far as possible will be transferred to empty containers from the scene. Keep the fire water spray container cooling, until the end of fire. If the containers in the fire ground have been color, must be evacuated immediately. Isolated accident scene, prohibit access. Receiving and processing of fire, to prevent environmental pollution.

Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material, avoid slipping. Avoid breathing dusts, vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions:

Prevent further leakage or spillage if safe to do so. To prevent leak into the water, the basement and limited space. Prevent entry into the sewage system.

6.3. Collecting, clearing method and disposal material:

Pick up and arrange disposal without creating dust. Collect mechanically. Keep in suitable, closed containers for disposal.

Disposal: Contaminated material must be disposed of in accordance with all State and/or Local regulations.

Section 7 - Handling and Storage

7.1. Handling precautions:

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid contact eyes and skin. Do not ingest. Avoid breathing dust. Normal measures for preventive fire protection. Observe good housekeeping procedures

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and hygiene practices. Wash thoroughly after handling. Avoid dust formation. Provide for appropriate exhaust ventilation and dust collection at machinery. Handling carefully to prevent damage the packaging and container. Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment.

7.2. Information about protection against explosions and fires:

Non-flammable and non-explosive goods, general rules of fire prevention should be observed. Keep away from open flames, hot surfaces and sources of ignition.

7.3. Precautions for storage:

Store under dry inert gas, this product is hygroscopic. Keep container tightly closed in a dry and well-ventilated place, protect from humidity and keep away from water. Keep away from incompatible materials (see section 10). Containers which are opened must be carefully resealed. Electrical installations / working materials must comply with the technological safety standards. Keep out of reach of children and pets.

7.4. Packaging materials:

Recommended-Use original container.

Section 8 - Exposure Controls/ Personal Protection

8.1. Exposure limit:

There is no known exposure limits prescribed by the state.

8.2. Engineering control:

None required. However, use of adequate ventilation is good industrial practice.

8.3. Personal protection:

Respiratory protection:

Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection:

Wear safety glasses when there is a potential for eye contact.

Skin and body protection:

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Wear suitable protective clothing.

Hands protection:

Protective gloves.

Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Other protection:

Smoking, eating and drinking water is forbidden in the workplace. After work, shower and change clothes.

Section 9 - Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	White- light yellow Crystalline powder
Odor:	Odorless
Melting point / freezing point(°C):	206-209
Boiling point(°C):	350
Flash point(Closed cup, °C):	No data available/Not applicable
Steam pressure(20°C):	No data available/Not applicable
Relative density (water=1, 20°C):	0.8g/cm ³
Partition coefficient: n-octanol/water:	No data available/Not applicable
Decomposition temperature(°C):	196-198
pH value:	7.65
Explosion limit:	Non-explosive
Vapor density:	No data available/Not applicable
Water soluble:	590g/l
Auto-ignition temperature:	No data available/Not applicable

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Flammability (solid, gas):	Non flammable
Oxidizing properties:	The substance or mixture is not classified as oxidizing

9.2. Other safety information

No data available/Not applicable

Section 10 - Stability and Reactivity

10.1. Stability:

The product is chemically stable.

10.2. Reactivity:

Stable under recommended storage and handling conditions.

10.3. Incompatible materials:

Strong oxidizing agents, strong acids and strong bases.

10.4. Conditions to avoid:

Incompatible materials, high temperature, water, direct sunlight and open fire.

10.5. Hazardous polymerization:

Will not occurs.

10.6. Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 - Toxicological Information

11.1. Acute toxicity:

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation)
SODIUM GLUCONATE	527-07-1	No data	No data	No data

11.2. Skin corrosion/irritation:

Prolonged and repeated exposure may cause skin irritation.

11.3. Eye corrosion/irritation:

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Irritating effect possible.

11.4. Respiratory or skin sensitization:

These products are not known to cause human skin or respiratory sensitization.

11.5. Germ cell mutagenicity:

According to the existing data, the product is not classified.

11.6. Carcinogenicity:

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

11.7. Reproductive toxicity:

According to the existing data, the product is not classified.

11.8. Specific target organ toxicity - single exposure:

According to the existing data, the product is not classified.

11.9. Specific target organ toxicity - repeated exposure:

According to the existing data, the product is not classified.

11.10. Aspiration hazard:

According to the existing data, the product is not classified.

Section 12 - Ecological Information

12.1. Ecotoxicity values:

This product contains no hazardous or toxic substances, and presents a negligible impact on the environment based on its reported use pattern.

12.2. Persistence and degradability:

The products are usually with natural biodegradable.

12.3. Bioaccumulative potential:

The potential for bioaccumulation of this material in aquatic organisms is low.

12.4. Mobility in soil:

Will penetrate into the soil, will be dissolved in the soil material.

12.5. Other adverse effects:

Harmless to water normally, but without government permission, do not dispose directly into rivers, watercourses or drains.

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Section 13 - Disposal Considerations

13.1. Residual waste:

The generation of waste should be avoided or minimized wherever possible. Recycle landfill.

13.2. Contaminated packaging:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

13.3. Disposal considerations:

Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with national and local relevant regulations laws.

Section 14 - Transport Information

According to IATA DGR 60th Edition for transportation, IMO International Maritime Dangerous Goods Code (Amendment 39-18), European Agreement Concerning the International Carriage of Dangerous Goods by Road. The products are not subject to IATA DGR, IMDG and ADR/RID.

14.1. UN number

ADR, RID, IMDG, IATA: Non-Hazardous for transport

14.2. UN proper shipping name

ADR, RID, IMDG, IATA: Non-Hazardous for transport

14.3. Transport hazard class(es)

ADR, RID, IMDG, IATA: Non-Hazardous for transport

14.4. Packing group

ADR, RID, IMDG, IATA: Non-Hazardous for transport

14.5. Environmental hazards

IMDG Marine pollutant: N

14.6. Special precautions for user:

Should check whether the container is full, sealed before shipping. Ensure that the product does not collapse, fall, and not damaged in transport process. Transportation should prevent insolation and high temperature and water. Avoid rain, polluted, damaged, long-term exposure. Stopover should be far

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away from fire, heat source and high temperature and water.

Section 15 - Regulatory Information

15.1. Regulatory information: Reference to the local, national, US, EU, CA and international regulations.

CAS No.	TSCA	EINECS	DSL	IECSC	NZIoC	PICCS	KECI	AICS
527-07-1	√	√	√	√	√	√	√	√

TSCA: United States Toxic Substances Control Act Inventory

EINECS: European Inventory of Existing Commercial Chemical Substances

DSL: Canadian Domestic Substances List

IECSC: China Inventory of Existing Chemical Substances

PICCS: Philippines Inventory of Chemicals and Chemical Substances

NZIoC: New Zealand Inventory of Chemicals

KECI: Existing and Evaluated Chemical Substances

AICS: List of existing chemical substances in Australia

Note

"√" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 - Other Information

Version: 1.0

Abbreviations or phrases:

ACGIH	:	American Conference of Governmental Industrial Hygienists
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
CLP	:	Classification, labeling and packaging
EC	:	Council of Europe

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ECHA	: European Chemicals Agency
EINECS	: European Inventory of Existing commercial Chemical Substances
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IARC	: International Agency for Research on Cancer
IATA	: International Air Transport Association
ICAO	: International Civil Aviation Organization
IMDG	: International Maritime Dangerous Goods Code
IC50	: Inhibitory Concentration Triton 50%
LC50	: Lethal Concentration 50%
LD50	: Median Lethal Dose 50%
MAPROL	: International Convention for the Prevention of Pollution from Ships
REACH	: REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
RID	: Regulation for rail International transportation of Dangerous goods
STEL	: Short Term Exposure Limit
TWA	: Time Weighted Average
MAC	: Maximum Allowable Concentration
OSHA	: Occupational Safety and Health Administration
NIOSH	: National Institute for Occupational Safety and Health
TLV	: Threshold Limit Value
TLV-TWA	: Threshold Limit Value-Time Weighted Average
TLV- STEL	: Threshold Limit Value-Short term Exposure Limit
PC-TWA	: Permissible Concentration-Time Weighted Average
PC-STEL	: Permissible Concentration-Short Term Exposure Limit
PEL	: Permissible Exposure Limit
OELs	: Occupational Exposure Limits

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Product photo(s)



End of Report

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