



Shandong Jufu Chemical Technology Co., Ltd.
Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product Name: SODIUM GLUCONATE

Other Name: GULCONIC ACID SODIUM SALT

Chemical Name: GULCONIC ACID SODIUM SALT

CAS No.: 527-07-1

Application of the substance :

1. **Construction Additive:** As cement/concrete retarder admixture, well improve the workability properties of concrete with water reducing performance, significantly extend concrete initial and final setting time, enhance concrete initial and final setting strength.
2. **Metal Surface Detergent:** High performance industrial detergent in electroplate industry.
3. **Glass Bottle Detergent:** As special detergent for glass bottles of milk, beer, can, soy, wine, etc.
4. **Water Treatment Chemical:** Because the sodium gluconate has excellent scale and corrosion inhibitor ability, so it is widely used as water quality stabilizer, inhibition efficiency strengthen with high temperature, and high performance of scale inhibition.
5. **As Textile printing and dyeing Additives.**
6. **Medical&Food Additive:** Widely used in medical, food and feed as additive.

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Section 2. Composition/Information on Ingredients

Name: Sodium Gluconate

Molecular Formula: C₆H₁₁NaO₇

Molecular Weight: 218.14

CAS No.: 527-07-1

EINECS NO.: 208-407-7

Section 3. Hazards identification

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: None.

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Inhalation: May cause respiratory tract irritation.

Ingestion: May cause irritation of the digestive tract.

Chronic: No information found.



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Section 4. First Aid Measures

Eyes : Immediately flush eyes with plenty of water. Then get immediate medical attention if necessary.

Skin: Flush in clear water after touching.

Inhalation: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Section 5. Fire Fighting Measures

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: No information found.

Flash Points: No information found

Flammable Limits: No information found

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances: Non-flammable in presence of open flames and sparks, of heat, of oxidizing materials, of reducing materials, of combustible materials, of moisture.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: No information found. Risks of explosion of the product in presence of static discharge: No information found .

Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: No information found

Special Remarks on Explosion Hazards: No information found

Section 6. Accidental Release Measures

Personal precautions:

Avoid dust formation. Use personal protective clothing. Avoid breathing vapors, mist or gas.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Section 7. Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Normal measures for preventive fire protection.

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

Section 8. Exposure Controls / Personal Protection



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Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Gloves. Be sure to use an approved/certified respirator or equivalent.

Exposure Limits: Not available

Section 9. Physical/Chemical Properties

Appearance	White to tan powder
Odor	Slight
PH value	---
Melting Point	206-209°C
Boiling Point	Decomposes
Flash Point	No data available
Specific Gravity:	1.2-1.3
Solubility in Water:	Soluble in cold water, hot water. Partially soluble in methanol.
Dispersion Properties:	See solubility in water, methanol.

Section 10. Stability and Reactivity

Stability: The product is stable.

Instability Temperature: No information found

Conditions of Instability: No information found

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: No information found

Special Remarks on Corrosivity: No information found

Polymerization: Will not occur.

Section 11. Toxicological Information

Routes of Entry: Eye contact.

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: No information found

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: No information found

Special Remarks on Chronic Effects on Humans: No information found

Special Remarks on other Toxic Effects on Humans: No information found



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Section 12. Ecological Information

Ecotoxicity: No information found

BOD5 and COD: No information found

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: No information found

Section 13. Disposal Considerations

Waste disposal of substance: Observe all federal, state, and local environmental regulations.

Container disposal: Dispose of as unused product.

Section 14. Package/Transportation Information

Package: 25KGs/40KGs/750KGs weaved bag with plastic inner.

Transportation: No hazardous carriage limited.

DOT Classification(US): Not dangerous goods

TDG Classification(Canad): Not dangerous goods

IMDG Classification: Not dangerous goods

IATA Classification: Not dangerous goods

Section 15: Other Regulatory Information

Federal and State Regulations: CAS# 527-07-1 is listed on the TSCA inventory

Other Regulations: OSHA: No known OSHA hazards

Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada)
DSCL (EEC): R36- Irritating to eyes.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Section 16: Other Information

Other Special Considerations: None

MSDS Revision date: May, 4th, 2010

The second revision date: Jun., 2nd, 2011



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The third revision date: Nov., 28th, 2017

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