



SAFETY DATA SHEET — SODIUM GLUCONATE

Page 1 of 9
Validity:
MARCH 2019
Revision: 00

SECTION 1: Identification of the substance or mixture and of the company

1.1 Product identifier:	SODIUM GLUCONATE
1.2 Other means of identification:	None known
Synonyms:	None known
Molecular formula:	C ₆ H ₁₁ NaO ₇
1.3 Relevant identified uses:	As a cleaning agent for steel surfaces, as a cement additive, as a cleaning agent for glass bottles, as a water stabilizer. Uses advised against: Unknown
1.4 Supplier details:	Energías Sustentables Cotell, S.A. de C.V. Boulevard Lomas de la Hacienda No. 39 Col. Lomas de la Hacienda, Atizapán de Zaragoza, Estado de México
1.5 Emergency telephone number:	Tels. 5360 4163, 5373 5882, 5370 1982 Poison control center: SETIQ Tel: 01-800-002-1400 SETIQ

SECTION 2: Hazard identification

2.1 Classification:	SODIUM GLUCONATE — Acute oral toxicity
2.2 Label elements — Hazard pictograms:	⚠ Exclamation mark (acute toxicity)
Signal word:	N/A
Hazard statements:	N/A
Precautionary statements:	P101 If medical advice is needed, have product container or label at hand. P103 Read label before use. P201 Obtain special instructions before use. P233 Keep container tightly closed. P262 Do not get in eyes, on skin, or on clothing. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
2.3 Other hazards:	N/A

SECTION 3: Composition / information on ingredients

3.1.1 Chemical identity:	SODIUM GLUCONATE
3.1.2 Common name / synonyms:	Sodium gluconate
3.1.3 CAS Number:	527-07-1
3.1.4 UN Number:	N/A
3.1.5 Impurities and stabilizing additives:	N/A

Chemical name	%	CAS No.	Acute Toxicity Estimates
---------------	---	---------	--------------------------

Sodium gluconate	≥98	527-07-1	N/A
------------------	-----	----------	-----

SECTION 4: First Aid Measures

Inhalation:	Provide fresh air; consult a doctor if complaints persist.
Eye contact:	Rinse eyes while keeping them open for several minutes under running water. If symptoms persist, consult a doctor. Remove contact lenses if present and easy to do. Continue rinsing.
Skin contact:	Wash contaminated skin with plenty of water. Remove contaminated clothing and shoes. If symptoms persist, seek medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Ingestion:	Rinse mouth and then drink plenty of water. If symptoms persist, consult a doctor.
4.2 Most important symptoms and effects:	No known health effects or risks.
4.3 Immediate medical attention:	No known health effects or risks.

SECTION 5: Fire-fighting measures

The product is non-flammable.	
5.1 Suitable extinguishing media:	Dry chemical powder, carbon dioxide, dry sand, earth, water spray, regular foam. For large fires: use water spray, mist or regular foam.
5.2 Special hazards from the substance:	During heating or in case of fire, toxic gases may form. In case of fire, the following may be released: Sodium Oxide and Carbon Oxide.
Hazardous combustion products:	May produce Sodium Oxide and Carbon Oxide.
5.3 Precautions for fire-fighters:	Use self-contained breathing apparatus and full protective clothing. Extinguish fire in the direction of the wind. Transfer to empty containers where possible. Keep containers cool with water spray until end of fire. Isolate the accident site and prohibit access.

SECTION 6: Accidental release measures

6.1 Personal precautions:	Do not take any action involving personal risk. Evacuate surrounding areas. Do not allow unprotected personnel to enter. Do not touch or walk through spilled material; avoid slipping. Avoid breathing dust. Use appropriate PPE (see section 8).
6.2 Environmental precautions:	Avoid further leaks or spills. Prevent entry into water, basements and confined spaces. Avoid entry into sewers.
6.3 Methods and materials for clean-up:	Collect residue without creating dust. Collect mechanically. Store in appropriate closed containers for disposal. Contaminated material must be disposed of in accordance with all applicable regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	Wear appropriate PPE (see section 8). Prohibit eating, drinking and smoking in areas where this material is handled. Workers should wash hands and face before eating, drinking and smoking. Avoid contact with eyes and skin. Avoid breathing dust. Observe good housekeeping and hygiene practices. Wash thoroughly after handling.
7.2 Fire and explosion protection:	Non-flammable and non-explosive. Keep away from fire and high temperatures.

7.3 Safe storage conditions:	Store under dry inert gas — this product is hygroscopic. Keep container tightly closed in a dry, well-ventilated place; protect from moisture. Keep away from incompatible materials (see section 10). Keep out of reach of children and pets.
7.4 Packaging materials:	Use of the original container is recommended.

SECTION 8: Exposure controls / personal protection

Engineering controls:	Storage or use facilities must be equipped with eyewash stations and emergency showers.
------------------------------	---

Chemical name	ACGIH	NIOSH	OSHA – Final PEL
SODIUM GLUCONATE	Not established	Not established	Not established

8.2 Appropriate technical controls:	Sealed production process with general ventilation. Provide safe fire-fighting and eye-washing equipment. Avoid contamination before use.
Eye and face protection:	Wear chemical-resistant safety goggles with side shields. Do not wear contact lenses.
Skin and body protection:	Protective work clothing. Protective rubber gloves — verify glove condition before each use. Glove material must be impermeable and resistant to the product.
Other skin protection:	Do not eat, drink, smoke or sniff while working. Follow standard precautionary measures for handling chemicals.
Respiratory protection:	If exposure limits are exceeded or irritation occurs, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) cartridges.
Thermal hazards:	N/A
Environmental exposure controls:	No data available.

SECTION 9: Physical and chemical properties

Appearance:	White crystalline powder — slightly yellow
Odor:	Odorless
Melting point / Freezing point (°C):	206–209
Boiling point (°C):	350
Flash point (closed cup, °C):	No data available / Not applicable
Vapor pressure (20 °C):	No data available / Not applicable
Relative density (water = 1, 20 °C):	0.8 g/cm ³
Partition coefficient n-octanol/water:	No data available / Not applicable
Decomposition temperature (°C):	196–198
pH value (30 °C, 50 g/l):	7.65
Explosion limits:	Product is not explosive
Vapor density:	No data available / Not applicable
Water solubility:	590 g/l
Ignition temperature (°C):	345
Flammability (solid, gas):	Not 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 Reactivity:	Stable under recommended storage and handling conditions.
10.2 Chemical stability:	The product is chemically stable.
10.3 Possibility of hazardous reactions:	No hazardous reactions known.
10.4 Conditions to avoid:	Incompatible materials, high temperature, water and open fire.
10.5 Hazardous polymerization:	Will not occur.
10.6 Hazardous decomposition products:	Under normal storage and use conditions, hazardous decomposition products will not be produced.

SECTION 11: Toxicological information

Short-term toxicity:	Unknown whether significant effects or critical risks exist.
Long-term toxicity:	Unknown whether significant effects or critical risks exist.
Skin irritation/corrosion:	May cause skin irritation.
Eye irritation/corrosion:	May cause eye irritation.
Respiratory or skin sensitization:	Not known to cause skin or respiratory sensitization in humans.
Germ cell mutagenicity:	Based on available data, the product is not classified.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
STOT – single exposure:	No data available.
STOT – repeated exposure:	No data available.
Aspiration hazard:	No data available.

SECTION 12: Ecological information

12.1 Toxicity:	This product does not contain hazardous or toxic substances and presents minimal environmental impact. Chemical name: Sodium gluconate CAS No.: 527-07-1
12.2 Persistence and degradability:	The product is generally naturally biodegradable.
12.3 Bioaccumulation potential:	Low bioaccumulation potential in aquatic organisms.
12.4 Mobility in soil:	May penetrate soil and will be dissolved by soil material.
12.5 Chemical oxygen demand (COD):	No data available.
12.6 PBT and vPvB assessment results:	No data available.
12.7 Other adverse effects:	Normally harmless to water, but without government authorization do not discharge directly into rivers, waterways or drains.
12.8 Additional information:	No data available.

SECTION 13: Disposal considerations

13.1 Waste:	Non-hazardous waste. Minimize waste generation where possible. Transfer to a suitable container and arrange collection by a specialized company.
13.2 Contaminated packaging:	Packaging waste should be recycled where possible. Incineration or landfill should be considered when recycling is not feasible.
13.3 Disposal considerations:	Dispose of container and unused product in accordance with relevant national and local regulatory laws.

SECTION 14: Transport information

14.1 UN Number — ADR, RID, IMDG, IATA:	Not regulated
14.2 UN proper shipping name:	Not regulated
14.3 Transport hazard class(es):	Not regulated
14.4 Packing group:	Not regulated
14.5 Environmental hazards — IMDG Marine pollutants:	NO
14.6 Special precautions for user:	Verify container is sealed before shipment. Protect from sun exposure, high temperature and water during transport. Keep away from fire, heat sources and water.
14.7 Transport in bulk (MARPOL / IBC Code):	N/A

SECTION 15: Regulatory information

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

TSCA: Toxic Substances Control Act Inventory (United States).

EINECS: European Inventory of Existing Chemical Substances.

DSL: Canadian Domestic Substances List.

IECSC: Inventory of Existing Chemical Substances in China.

PICCS: Philippines Inventory of Chemicals and Chemical Substances.

NZIoC: New Zealand Inventory of Chemicals.

KECI: Korea Existing Chemicals Inventory.

AICS: Australian Inventory of Chemical Substances.

Note: "✓" indicates the substance is included in the regulations. "x" indicates the substance is not included.

SECTION 16: Other information

Hazardous Material Information System (United States):	
Health:	1
Flammability:	1
Physical hazards:	0
Revision date:	
Indication of changes:	Update: / Version:
Main bibliographic references:	Official Mexican Standard NOM-018-STPS-2015, Harmonized system for the identification and communication of hazards and risks from hazardous chemical substances in the workplace.

