



# MATERIAL SAFETY DATA SHEET

## SODIUM GLUCONATE

**Date: 2017.12.20**

### 1. Product Identification

Synonyms: Gluconic Acid, Monosodium Salt

CAS No.: 527-07-1

Chemical Formula:  $\text{NaC}_6\text{H}_{11}\text{O}_7$

### 2. Composition/Information on Ingredients

Ingredient	Cas No.	Percent	Hazardous
Sodium Gluconate	527-07-1	98%	No
Water	7732-18-5	2%	No

### 3. Hazards Identification

#### Emergency Overview

CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

#### Potential Health Effects

##### 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 skin disorders, impaired respiratory function may be more susceptible to the effects of the substance



### 4. First Aid Measures

#### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### 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.

**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.

**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.

## 5. Fire Fighting Measure

**Fire:**

Not considered to be a fire hazard

**Explosion:**

Not considered to be an explosion hazard

**Fire Extinguishing Media:**

Water fog, foam, carbon dioxide, dry chemical

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand of other positive pressure mode.

## 6. Accidental Release Measures

Ventilate area of leak of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

## 7. Handling and Storage

Keep in tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances.

## 8. Exposure Controls/Personal Protection

**Ventilation System:**

A system of local and / or general exhaust is recommended. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded, a full facepiece respirator with dust/mist filter may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air Purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:**

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.





## 9. Physical and Chemical Properties

**Appearance:** Yellow green powder  
**Odor:** Odorless  
**Solubility:** 110g/L water @20C (68F)  
**PH:** 3 (1% solution)  
**% Volatiles by volume @ 21C (70F):** 0  
**Boiling Point:** No information found  
**Melting Point:** Decomposes ca. 150C without melting  
**Vapor Density (Air=1):** No information found  
**Vapor Pressure (mm Hg):** No information found  
**Evaporation Rate (BuAc=1):** No information found

## 10. Stability and Reactivity

**Stability:**  
Stable under ordinary conditions of use and storage  
**Hazardous Decomposition Products:**  
No information found  
**Hazardous Polymerization:**  
Will not occur  
**Incompatibilities:**  
No data available  
**Conditions to Avoid:**  
No data available

## 11. Toxicological Information

No test data found for product

## 12. Ecological Information

**Environmental Fate:**  
No information found  
**Environmental Toxicity:**  
No information found

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.



## 14. Transport Information

<u>DOT</u>	not regulated
<u>TDG</u>	not regulated
<u>ADR/RID/GGVS/GGVE</u>	not regulated
<u>ICAO /IATA</u>	not regulated

第 3 页 共 4 页



IMDG/IMO

not regulated

IATA Dangerous Goods Regulation(DGR) 55TH Edition 2014:NO NONE / NOT REGULATED

This product is not classified as dangerous under the relevant EU directives and DOT regulations.

Thus it is not hazardous under transport regulations.

## 15.Regulatory Information

OSHA: Not hazardous

SARA 302: Not listed

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TSCA: Not listed

CA Prop 65: This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

## 16.Other Information

**NEPA Ratings: Health: 2 Flammability: 0 Reactivity: 0**

**Label Hazard Warning:**

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

**Label Precautions:**

Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation.

**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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eye or skin with plenty of water for at least 15minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician.

**Product Use:**

Electroplating, metal surface washing, aluminum oxidation coloring and water treatment.

**Revision Information:**

Mixture New 16 section MSDS format, all sections have been revised.

