

## MATERIAL SAFETY DATA SHEET

### SODIUM GLUCONATE

#### 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	Gas No.	Percent	Hazardous
Sodium Gluconate	527-07-1	95%	No
Water	7732-18-5		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 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 or other positive pressure mode.

## 6. Accidental Release Measures

Ventilate area of leak or 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: White

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

DOT

not regulated

TDG

not regulated

ADR/RID/GGVs/GGVE

not regulated

ICAO /IATA

not regulated

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**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

SARA 301: Not listed

TSCA: Not listed

**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 15 minutes. 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.