



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 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: 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.

