

SAFETY DATA SHEET

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GLUCONIC ACID 50%

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	526-95-4
EC number:	223-812-5
1.2 SYNONYMS	Gluconic Acid (50% solution), Gluconic Acid Sodium Salt

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	This product is not classified according to the OSHA 2012 Hazard communications standard (29 CFR 1910,1200)
2.2 Label elements:	Labeling according to OSHA Hazard Communication Standard (29 CFR 1910.1200): Not applicable
2.3 Other hazards:	
Irritation:	can cause mild irritation upon contact with skin or eyes.
Skin Contact:	Slightly irritation
Eye contact:	Can cause irritation
Chronic Exposure:	Irritation of eyes, skin and mucous membranes
Aggravation of pre-existing conditions	No Further information available

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 526-95-4 GLUCONIC ACID(50%), 7732-18-5 WATER(50%)
Identification number(s):	EC number: 223-812-5

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	Supply with fresh air. If breathing persists, Call a physician
After 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..
After eye contact:	Immediately flush eyes with plenty of water for several minutes, Get medical attention.
After swallowing:	Rinse mouth. Call a physician
4.2 Most important symptoms and effects, both acute and delayed	There is not known to any symptoms or effect.
4.3 Indication of any immediate medical attention and special treatment needed	No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media	No flammable liquid, use the suitable extinguishing agents surrounding conditions.
5.2 Special hazards arising from the substance or mixture	May decompose at high temperatures, releasing harmful gases or vapors.
5.3 Advice for firefighters	Wear fully protective suit and respiratory device .

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Collect spillage timely; ensure adequate ventilation, avoid contact with eyes.
6.2 Environmental precautions:	Avoid release to the environment. Prevent spills from entering waterways, drains, or soil. Inform to respective authorities.

6.3 Methods and material for containment and cleaning up:	Use absorbent materials such as sand, universal binders, diatomite, acid binders, sawdust or commercially available absorbent pads.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling	Ensure good ventilation/exhaust at your workplace, wear protective gloves,/eye protection/face protection, avoid contact with eyes.
Information about fire - and explosion protection:	Normal measures for preventive fire protection
7.2 Conditions for safe storage, including any incompatibilities	Keep away from strong oxidizers.
Requirements to be met by storerooms and receptacles:	Store in a cool and well ventilated space.
Information about storage in one common storage facility:	Keep away from foodstuffs and store locked up

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended
8.2 Exposure controls	
Personal protective equipment:	Set up stations equipped with PPE (gloves, goggles, masks) near handling areas to ensure workers can quickly access necessary protective gear.
General protective and hygienic measures:	Wash hands thoroughly after handling and avoid eating, drinking, or smoking in areas where Gluconic acid is handled. If it persists, call a physician.
	Respiratory protection: Required.
Protection of hands:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation

	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Penetration time of glove material:	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
	Eye protection: Not required

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid
Colour:	Light Brown or Light Yellow
Odour:	odorless
pH-value:	4-5
Melting point/Melting range:	Data not available
Boiling point/Boiling range:	>100°C
Flammability (solid, gaseous):	Product is not flammable.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Self-igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard
Explosion limits: Lower:	Not determined
Explosion limits: Upper:	Not determined
Vapour pressure:	23 hPa at 20°C
Density at 20 °C:	1.4 g/cm ³ .
Relative density:	Not determined.
Vapour density:	Not determined
Evaporation rate:	Not applicable
Solubility in / Miscibility with- water at 20 °C:	50% w/v
Partition coefficient:(n- octanol/water)	-2.5.
Viscosity:	1 to 10 mPa·s

SECTION 10: Stability and reactivity

10.1 Reactivity	No decomposition if used according to specification
10.2 Chemical stability	Stable under recommended storage conditions
10.3 Possibility of hazardous reactions	No known hazardous reactions
10.4 Conditions to avoid	No special avoid condition
10.5 Incompatible materials:	Strong acid, alkali, alkali metals, and strong oxydizing agent.
10.6 Hazardous decomposition products:	No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	Not classified as toxic/harmful mixture
11.2 Additional toxicological information	Not classified as toxic/harmful mixture

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	low LC50 (lethal concentration for 50% of test organisms),relatively safe for aquatic life.
12.2 Persistence and degradability:	Readily biodegradable and low persistence
12.3 Bioaccumulative potential:	low
12.4 Mobility in soil:	High solubility
12.5 Other adverse effects	Excessive amounts may alter the chemical composition of water, Microbial Imbalance, Irritation

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging: Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Baking soda, calcium carbonate paste, water and detergents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	Not regulated
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Not regulated
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	Class Not regulated
14.4 Packing group · ADR, IMDG, IATA:	Not regulated
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
UN "Model Regulation":	Not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	REACH Regulation (EC) No. 1907/2006, CLP Regulation (EC) No. 1272/2008 The substance is not classified under any harmful substances.
Named dangerous substances	ANNEX I Substance is not listed
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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