



Tradename: Sodium gluconate solution 35%

Print Date: 6. January 2021

Version: 1.2, revision date: 02.01.2021

Replaced version: 1.1 created on: 22.06.2020

Region: EN

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

1.1. Product identifier

Product name / Trade name

Sodium gluconate solution 35%

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture

Industrial and professional use.

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company

SysKem Chemie GmbH

Brucknerweg 26

D-42289 Wuppertal

Telephone +49 (0) 202/30999510

Telefax +49 (0) 202/87088403

E-mail address info@syskem.de

Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

1.4. Emergency telephone number

Vergiftungs-Informationen-Zentrale Freiburg, Tel. +49 761 19240.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

not required

Signal word

not required

2.3. Other hazards

There is no additional information.



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SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Mixture.

Ingredients

Chemical Name	CAS-No. EC-No.	Classification	Concentration
Sodium gluconate	527-07-1 208-407-7	---	35 %

SECTION 4: First aid measures**4.1. Description of first aid measures****General advice:**

Take off contaminated clothing.

If inhaled:

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

In case of skin contact:

Rinse skin with water/shower.

In case of eye contact:

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

If swallowed:

Rinse mouth. Call a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Co-ordinate fire-fighting measures to the fire surroundings
water spray, foam, dry extinguishing powder, carbon dioxide (CO₂)**Unsuitable extinguishing media**

Water jet

5.2. Special hazards arising from the substance or mixture**Special risks in fire fighting**

In the event of fire, dangerous decomposition products can arise.

5.3. Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with eyes and skin.

6.2. Environmental precautions

Prevent penetration into the sewage system or into surface and ground water.

6.3. Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Absorb with liquid-binding material. Clean up.

Other information relating to spills and releases

Place in appropriate containers for disposal.

6.4. Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged and repeated contact.

Advice on general occupational hygiene

Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

7.3. Specific end use(s)

No information available.



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SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No data available

DNELs

No data available

PNECs

No data available

8.2. Exposure controls**Personal protective equipment**

Provide adequate ventilation.

Respiratory protection:

When developing vapors, use respiratory protection with approved filter type.

Eye protection:

Use safety goggle with side protection.

Hand protection:

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

Type of material

NBR (Nitrile rubber)

Material thickness

>0,11 mm

Breakthrough times of the glove material

>480 minutes (permeation: level 6)

Other protection measures

Insert recovery phases for regeneration of the skin. Preventive skin protection (protective creams/salves) is recommended.

Limitation and monitoring of environmental exposure

Prevent entry into sewers or surface and ground water.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	: Aqueous solution
Form	: Liquid
Colour	: Yellowish
Odour	: Odorless
Odour threshold	: Not relevant
PH-value	: No data available
Boiling point / boiling range	: > 100 °C
Meltig point /Melting range	: No data available
Decomposition temperature	: No data available
Flash point	: Not applicable (as an aqueous solution)
Auto-ignition temperature	: No data available



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Oxidising properties	: None
Explosive properties	: Product does not present an explosion hazard.
Flammability (solid, gas)	: Not relevant (liquid).
Explosion limits	: No data available
Lower	: No data available
Upper	: No data available
Vapour pressure at 20 °C	: No data available
Vapour density	: No data available
Evaporation rate	: No data available
Relative density	: No data available
Density at 20 °C	: No data available
Solubility in / Miscibility with water	: Miscible at 20 ° C
Solubilities	: No data available
Partition coefficient n-octanol/water (log P)	: No data available
Viscosity	
Dynamic	: No data available
Kinematic	: No data available

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and used as intended.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known when used as directed.

10.4. Conditions to avoid

Protect from heat.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) (ingredient)

Chemical name	CAS	Endpoint	Value	Species	Method	Exposure time
Sodium gluconate	527-07-1	EC50	>1.000 mg / l	Daphnia magna	OECD-202	48 h

12.2 Persistence and degradability

The product is easily biodegradable.

12.3 Bioaccumulative potential

This product is miscible with water and easily biodegradable in water and soil. Accumulation is not to be expected.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

Ingredient sodium gluconate

This substance is not persistent, bioaccumulative and toxic (PBT).

This substance is not very persistent and very bioaccumulative (vPvB).



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12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information

Do not empty into drains.

Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.



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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)
Not listed.

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Not listed.

Regulation 850/2004/EC on persistent organic pollutants (POP)

Not listed.

Restrictions according to REACH, Annex XVII

Not listed

List of substances subject to authorisation (REACH, Annex XIV)

Not listed

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

Not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

Not listed

National inventories

Substance is listed in the following national inventories:

EINECS/ELINCS/NLP (Europe)

REACH (Europe)

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.



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SECTION 16: Other information**Further information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Regulation (EC) No. 1272/2008 (CLP, EU GHS)

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Not relevant.

Department issuing data sheet

SysKem Chemie GmbH

Dept. Product Safety

Telephone +49 (0) 202/30999510

Reasons for changes

Section 1

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
EH40/2005	EH40/2005 Workplace exposure limits
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	short-term exposure limit
TWA	time-weighted average
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit