Printing date 01/10/2023

Reviewed on 01/10/2023

1 Identification

- · Product identifier
- · Trade name: Sodium Gluconate 400 gpl w/ Formaldehyde
- · Article number: KAI011
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA

800-256-2586

- · Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org · Emergency telephone number:
- Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity 1B H350 May cause cancer.

· Label elements

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labeling:
- Formaldehyde
- · Hazard statements
- May cause cancer.
- · Precautionary statements
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF exposed or concerned: Get medical advice/attention.
- Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

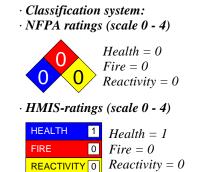
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• Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous comp	ponents:	
CAS: 50-00-0 F	ormaldehyde	0.18%
• Table of Nonhaz	ardous Ingredients	
CAS: 7732-18-5	Water	55.357%
CAS: 527-07-1	Sodium Gluconate	44.463%

4 First-aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

· ·

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

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Personal preca	utions, protective equipment and emergency procedures Not required.	
Environmenta		
Dilute with ple		
	o enter sewers/ surface or ground water.	
	naterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	ninated material as waste according to item 13.	
Ensure adequa		
Reference to of		
	or information on safe handling.	
	or information on personal protection equipment.	
	for disposal information.	
	on Criteria for Chemicals	
• PAC-1:		
CAS: 50-00-0	Formaldehyde	0.90 ppi
<i>PAC-2:</i>		
CAS: 50-00-0	Formaldehyde	14 ppi
• PAC-3:		
	Formaldehyde	56 ppi

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Com	\cdot Components with limit values that require monitoring at the workplace:	
CAS:	: 50-00-0 Formaldehyde	
	Short-term value: 2 ppm Long-term value: 0.75 ppm see 29 CFR 1910.1048(c)	
REL	Long-term value: 0.016 ppm Ceiling limit value: 0.1* ppm *15-min; See Pocket Guide App. A	
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TLV Short-term value: 0.3 ppm Long-term value: 0.1 ppm DSEN; RSEN, A1

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and a General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Yellow	
Odor:	Mild	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	

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Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 $^{\circ}C$ (68 $^{\circ}F$):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	0.89962 g/cm ³ (7.50733 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.2 %	
Water:	55.4 %	
VOC content:	0.18 %	
	1.6 g/l / 0.01 lb/gal	
Solids content:	44.5 %	
Other information	No further relevant information available.	

10 Stability and reactivity

- *Reactivity* No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicolo	gical inf	<i>formation</i>
• Informatio • Acute toxi		cological effects
· LD/LC50	values tha	t are relevant for classification:
ATE (Acu	te Toxicity	Estimate)
Oral	LD50	>111,049 mg/kg (rat)
Dermal	LD50	166,574 mg/kg
Inhalative	LC50/4h	1,666 mg/l
• Additional The produc	on: No ser toxicolog ct shows th	nsitizing effects known. ical information: ne following dangers according to internally approved calculation methods for preparations:
· Carcinoge	-	Agency for Research on Cancer)
CAS: 50-0		
· NTP (Nati	onal Toxi	cology Program)
CAS: 50-0	0-0 Form	aldehyde K
· OSHA-Ca	(Occupat	ional Safety & Health Administration)
CAS: 50-0	0-0 Form	aldehyde

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- \cdot Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA	Not more date d	
- Class	Not regulated	
Packing group DOT, IMDG, IATA	Not regulated	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

CAS: 50-00-0 Formaldehyde	
· Section 313 (Specific toxic chemical listings):	
CAS: 50-00-0 Formaldehyde	
• TSCA (Toxic Substances Control Act):	
Water	ACTIVI
Sodium Gluconate	ACTIVI
Formaldehyde	ACTIV
· Hazardous Air Pollutants	
CAS: 50-00-0 Formaldehyde	
Proposition 65	
· Chemicals known to cause cancer:	
CAS: 50-00-0 Formaldehyde	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
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B1

A2

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 50-00-0 Formaldehyde

· TLV (Threshold Limit Value)

CAS: 50-00-0 Formaldehyde

· NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 50-00-0 Formaldehyde

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling:

Formaldehyde

· Hazard statements

- May cause cancer.
- · Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · National regulations:
- Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous).

• Information about limitation of use: Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other 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.

- · Department issuing SDS: Environment protection department.
- · Contact:
- · Date of preparation / last revision 01/10/2023
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

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DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Carcinogenicity 1B: Carcinogenicity – Category 1B \cdot * Data compared to the previous version altered.