Printing date 06/04/2024

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Reviewed on 06/04/2024

Identification	
Product identifier	
Trade name: Sodium Nitrite 5% w/w Solution	
APHA for Manganese	
Article number: 8703	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
Aqua Solutions, Inc.	
6913 Highway 225	SOLUTIONS
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	
Hazard(s) identification	
Classification of the substance or mixture	
GHS03 Flame over circle	
GHS03 Flame over circle	
Oxidizing Liquids 2 H272 May intensify fire; oxidizer.	
Oxidizing Liquids 2 H272 May intensify fire; oxidizer.	
Oxidizing Liquids 2 H272 May intensify fire; oxidizer.	
Oxidizing Liquids 2 H272 May intensify fire; oxidizer. GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed.	
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Safety Data Sheet acc. to OSHA HCS

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Trade name: Sodium Nitrite 5% w/w Solution APHA for Manganese

Wash thoroughly Do not eat, drink Wear protective of If swallowed: Ca Rinse mouth. If in eyes: Rinse Continue rinsing If eye irritation p In case of fire: U	tion to avoid mixing with combustibles. after handling. or smoke when using this product. gloves/protective clothing/eye protection/face protection. Il a poison center/doctor if you feel unwell. cautiously with water for several minutes. Remove contact lenses, if present and wersists: Get medical advice/attention. fse CO2, powder or water spray to extinguish.	easy to do.
	nts/container in accordance with local/regional/national/international regulations.	
· Classification sy		
\cdot NFPA ratings (s	cale U - 4)	
1 0 Fi	$\begin{aligned} ealth &= 1\\ re &= 2\\ eactivity &= 0 \end{aligned}$	
The substance po	pssesses oxidizing properties.	
· HMIS-ratings (s		
HEALTH1HFIRE2FREACTIVITY0R	lealth = 1 irre = 2 eactivity = 0	
• Other hazards		
	and vPvB assessment	
• PBT: Not applied		
• vPvB: Not applie	cable.	
2 Composition	information on ingredients	
5 Composition/	mjormation on ingreatents	
	cterization: Mixtures	
• Description: Mix	ture of the substances listed below with nonhazardous additions.	
· Dangerous comp	ponents:	
CAS: 7632-00-0	Sodium Nitrite	4.869%
• Table of Nonhaz	ardous Ingredients	
CAS: 7732-18-5	•	95.131%
2110.7722 10 2		

4 First-aid measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• 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. If symptoms persist, consult a doctor.

· After swallowing: Immediately call a doctor.

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- 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.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
 Environmental precautions: Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- \cdot Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to section 13.
- Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- PAC-1:
 6.4 mg/m³

 CAS: 7632-00-0
 Sodium Nitrite
 6.4 mg/m³

 PAC-2:
 71 mg/m³

 CAS: 7632-00-0
 Sodium Nitrite
 71 mg/m³

 PAC-3:
 240 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · 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.

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• 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 section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- 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. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

• Breathing equipment: Not required.

• 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

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- General Information
- · Appearance: Form:

Liquid

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		(Contd. of page
Color:	Colorless	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range: Boiling point/Boiling range:	0 °C (32 °F) 100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
• Decomposition temperature:	Not determined.	
· Ignition temperature:	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 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density at 20 °C (68 °F):	1.05687 g/cm ³ (8.81958 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	r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	95.1 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	4.9 %	
• 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.

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Trade name: Sodium Nitrite 5% w/w Solution APHA for Manganese

• Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

- Oral LD50 2,054 mg/kg
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

\cdot Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · 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.
- · Additional ecological information:

· General notes:

- Water hazard class 3 (Self-assessment): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

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

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[·] Toxicity

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, IMDG, IATA	UN3219
UN proper shipping name DOT IMDG, IATA	Nitrites, inorganic, aqueous solution, n.o.s. (Sodium Nitrite) NITRITES, INORGANIC, AQUEOUS SOLUTION, N. (Sodium Nitrite)
Transport hazard class(es)	
DOT	
OKIDIZER 51 Class	5.1 Oxidizing substances
Label	5.1
Class Label	5.1 Oxidizing substances 5.1
IATA	
51	
Class	5.1 Oxidizing substances
Label	5.1
· Packing group · DOT, IMDG, IATA	III
Environmental hazards: Marine pollutant:	Symbol (fish and tree)
· Special precautions for user · Hazard identification number (Kemle	Warning: Oxidizing substances

ACTIVE

ACTIVE

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Trade name: Sodium Nitrite 5% w/w Solution APHA for Manganese

	(Contd. of page 7)
• EMS Number: • Segregation groups	F-A,S-Q (SGG12) Nitrites and their mixtures
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	UN 3219 NITRITES, INORGANIC, AQUEOUS SOLUTION,
	N.O.S. (SODIUM NITRITE), 5.1, III

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
 Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 7632-00-0 Sodium Nitrite

· TSCA (Toxic Substances Control Act):

Water

Sodium Nitrite

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· 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)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

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

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 9)

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Trade name: Sodium Nitrite 5% w/w Solution APHA for Manganese

(Contd. of page 8) · Hazard pictograms GHS03 GHS07 · Signal word Danger · Hazard-determining components of labeling: Sodium Nitrite · Hazard statements May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye irritation. · Precautionary statements Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eve irritation persists: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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: · Date of preparation / last revision Revision 1.2, 06/04/2024: Reviewed SDS for accuracy. MH/STN 06/04/2024 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods 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

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OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Oxidizing Liquids 2: Oxidizing liquids – Category 2 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A • * Data compared to the previous version altered.