Printing date 05/29/2024

Reviewed on 05/29/2024

1 Identification

- · Product identifier
- · Trade name: Sodium Ferrocyanide, Laboratory Grade
- Article number: S2910
- CAS Number: 14434-22-1
- EC number:
- 237-081-9
- 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
- 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



Acute Toxicity - Oral 4 H302 Harmful if swallowed. Acute Toxicity - Dermal 4 H312 Harmful in contact with skin.

· Label elements

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



Signal word Warning
Hazard statements
Harmful if swallowed or in contact with skin.
Precautionary statements
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If on skin: Wash with plenty of water.



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Specific measures (see on this label). Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulation • Classification system: • NFPA ratings (scale 0 - 4)	(Contd. of page 1)
$\begin{array}{c} \textbf{Health} = 2\\ Fire = 0\\ Reactivity = 0 \end{array}$	
\cdot HMIS-ratings (scale 0 - 4)HEALTH2FIRE0Fire0	
REACTIVITY Reactivity = 0 • Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable.	

3 Composition/information on ingredients

- Chemical characterization: Substances • CAS No. Description
- CAS: 14434-22-1 Sodium Ferrocyanide, Laboratory Grade
- · Identification number(s)
- EC number: 237-081-9

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.
- · After swallowing: Immediately call a 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.

(Contd. on page 3)

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· 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 to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · 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: Substance is not listed.
- PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.

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: None.
- 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: Not required.
- Additional information: The lists that were valid during the creation were used as basis.

- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work. 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.

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(Contd. of page 2)

[·] Exposure controls

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- 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.

• *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.

• Body protection: Protective work clothing

9 Physical and chemical properties

General Information• Appearance: Form:Crystalline Color:• Jipearance: Form:Light yellow• Odor:Odorless• Odor threshold:Not determined.• pH-value:Not applicable.• Change in condition Melting point/Melting range:435 °C (815 °F) Boiling point/Boiling range:• Jile point/Boiling range:Undetermined.• Flash point:Not applicable.• Flash point:Not applicable.• Flash point:Not determined.• Decomposition temperature:Not determined.• Danger of explosion:Product is not flammable.• Danger of explosion:Product does not present an explosion hazard.• Explosion limits: Lower: Upper:Not determined.• Vapor pressure:Not determined.• Vapor pressure:Not applicable.• Density at 20 °C (68 °F):1.458 g/cm³ (12.16701 lbs/gal)• Relative densityNot determined.• Vapor densityNot determined.• Vapor density in / Miscibility with Water at 20 °C (68 °F):318.5 g/l• Partition coefficient (n-octanol/water): Not determined.• Viscosity: Dynamic: Kinematic:Not applicable.• Other informationNot applicable.	· Information on basic physical and o	chemical properties
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Kinematic: Not applicable.	· Viscosity:	
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• Other information No further relevant information available.	Kinematic:	Not applicable.
	· Other information	No further relevant information available.

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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.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 500 mg/kg (ATE)

Dermal LD50 1,100 mg/kg (ATE)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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.
- · 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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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.

UN-Number	1112077
DOT, IMDG, IATA	UN3077
UN proper shipping name	
DOT	Environmentally hazardous substance, solid, n.o.s. (Sodiu
	Ferrocyanide, Laboratory Grade)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLII N.O.S. (Sodium Ferrocyanide, Laboratory Grade), MARIN
	POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLII
	N.O.S. (Sodium Ferrocyanide, Laboratory Grade)
Transport hazard class(es)	
DOT, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT, IMDG, IATA	111
Environmental hazards:	
Marine pollutant:	Yes (P) Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
	, , , , , , , , , , , , , , , , , , ,
Special precautions for user Hazard identification number (Kemler code):	Warning: Miscellaneous dangerous substances and articles
EMS Number:	F-A,S-F
Stowage Category	A
Stowage Code	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
Transport in bulk according to Annex II of	

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	(Contd. of page 6)
· Transport/Additional information:	
· DOT · Remarks:	Special marking with the symbol (fish and tree).
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM FERROCYANIDE, LABORATORY GRADE), 9, 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): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act):
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

- · Hazard statements
- Harmful if swallowed or in contact with skin.
- · Precautionary statements
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If swallowed: Call a poison center/doctor if you feel unwell.
- Rinse mouth.
- If on skin: Wash with plenty of water.
- Specific measures (see on this label).
- Wash contaminated clothing before reuse.
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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(Contd. of page 7)

 Department issuing SDS: Environment protection department. Contact: Date of Preparation / Last Revision: Date of preparation / Last Revision Revision 1.2, 05/28/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 10-06-2015. STN 05/29/2024 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association P: Marine Pollutant EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TU: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity - Category 4 		nformation is based on our present knowledge. However, this shall not constitute a guarantee for a ic product features and shall not establish a legally valid contractual relationship.
Date of Preparation / Last Revision: Date of preparation / Last Revision Revision 1.2, 05/28/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 10-06-2015. STN 05/29/2024 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association P: Marine Pollutant EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal dose, 50 percent D50: Lethal dose, 50 percent D50: 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 REL: Recommended Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity – Category 4	Depar	tment issuing SDS: Environment protection department.
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