Printing date 06/10/2024

Reviewed on 06/10/2024

1 Identification

- · Product identifier
- Trade name: <u>Turbidity Std. (Formazin)</u> 0.1 NTU (APHA)
- · Article number: 3865
- 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

- The product is not classified, according to the Globally Harmonized System (GHS).
- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Precautionary statements
- If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTHImage: 0Health = 0FIREImage: 0Fire = 0REACTIVITYImage: 0

· Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.

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· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components: Not Applicable

| · Table of Nonhazardous Ingredients | | |
|-------------------------------------|------------------------|---------|
| CAS: 7732-18-5 | Water | 99.999% |
| CAS: 100-97-0 | Hexamethylenetetramine | 0.001% |
| CAS: 10034-93-2 | Hydrazine Sulfate | 0.0001% |

4 First-aid measures

· Description of first aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- 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.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

• Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• *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.

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| · Protective Action | Criteria for Chemicals | (Contd. of page 2) |
|---------------------|------------------------|-------------------------|
| · PAC-1: | • | |
| CAS: 100-97-0 | Hexamethylenetetramine | 55 mg/m ³ |
| CAS: 10034-93-2 | Hydrazine Sulfate | $0.5 mg/m^3$ |
| · PAC-2: | | |
| CAS: 100-97-0 | Hexamethylenetetramine | 610 mg/m ³ |
| CAS: 10034-93-2 | Hydrazine Sulfate | 1.5 ppm |
| · PAC-3: | | |
| CAS: 100-97-0 | Hexamethylenetetramine | 3,600 mg/m ³ |
| CAS: 10034-93-2 | Hydrazine Sulfate | 8.8 ppm |

7 Handling and storage

· Handling:

- Precautions for safe handling No special measures required.
- · 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:

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:
- The usual precautionary measures for handling chemicals should be followed.
- · 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 (Contd. on page 4)

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· 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: Goggles recommended during refilling.

· Body protection: Protective work clothing

| Information on basic physical and c | hemical properties | |
|---------------------------------------|---|--|
| General Information | | |
| Appearance: | | |
| Form: | Liquid | |
| Color: | Milky opaque color, must be shaken before use | |
| Odor: | Amine-like | |
| Odor threshold: | Not determined. | |
| pH-value: | Not determined. | |
| Change in condition | | |
| Melting point/Melting range: | 0 °C (32 °F) | |
| Boiling point/Boiling range: | 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 g/cm ³ (8.345 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. | |

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| 100.0 % | |
|--|--|
| 0.00 % | |
| 0.0 g/l / 0.00 lb/gal | |
| 0.7 % | |
| No further relevant information available. | |
| | 0.00 % 0.0 g/l / 0.00 lb/gal 0.7 % |

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:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

CAS: 10034-93-2 Hydrazine Sulfate

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is 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.

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 \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: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

| Transport information | | |
|--------------------------------------|-----------------|--|
| UN-Number | | |
| · DOT, ADN, IMDG, IATA | Not regulated | |
| UN proper shipping name | | |
| DOT, ADN, IATA | Not regulated | |
| IMDG | Not Regulated | |
| | Not regulated | |
| Transport hazard class(es) | | |
| DOT, ADN, IMDG, IATA | | |
| · 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. | |
| UN "Model Regulation": | Not regulated | |

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.

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| | (Contd. of page |
|---|---------------------------------------|
| Section 313 (Specific toxic chemical listings): | |
| CAS: 10034-93-2 Hydrazine Sulfate | |
| TSCA (Toxic Substances Control Act): | |
| Water | ACTIVI |
| Hexamethylenetetramine | ACTIVI |
| Hydrazine Sulfate | ACTIVI |
| Hazardous Air Pollutants | |
| None of the ingredients is listed. | |
| Proposition 65 | |
| Chemicals known to cause cancer: | |
| CAS: 10034-93-2 Hydrazine Sulfate | |
| 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 Not Applicable Hazard pictograms Not Applicable | |
| Signal word Not Applicable | |
| Hazard statements Not Applicable | |
| Precautionary statements | |
| If swallowed: Call a poison center/doctor if you feel unwell. | |
| If on skin: Wash with plenty of water. | |
| If in eyes: Rinse cautiously with water for several minutes. Remove contact len | ises. if present and easy to d |
| Continue rinsing. | , , , , , , , , , , , , , , , , , , , |
| Dispose of contents/container in accordance with local/regional/national/international/ | onal regulations |
| Chemical safety assessment: A Chemical Safety Assessment has not been carried of | |
| | |

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, 06/10/2024: Reviewed SDS for accuracy. MH/STN 06/10/2024 / 1.0

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| • Abbreviations and acronyms: |
|---|
| IMDG: International Maritime Code for Dangerous Goods |
| DOT: US Department of Transportation |
| IATA: International Air Transport Association |
| 1 |
| 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) |
| 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 |
| \cdot * Data compared to the previous version altered. |