Printing date 08/16/2024

Reviewed on 08/16/2024

### **1** Identification

- · Product identifier
- · Trade name: Formate Standard 1,000 ppm w/v Solution
- · Article number: HON093
- Details of the supplier of the safety data sheet · Manufacturer/Supplier:

Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA800-256-2586

- · 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 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.

Store in a closed container.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH 0 Health = 00 Fire = 0**REACTIVITY O** Reactivity = 0

· Other hazards

FIRE

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

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99.849%

0.151%

### 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

CAS: 141-53-7 sodium formate

#### 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.

# **<u>5 Fire-fighting</u>** 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.
- 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:

CAS: 141-53-7 sodium formate

 $0.45 \text{ mg/m}^3$ 

· PAC-2:

CAS: 141-53-7 sodium formate

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25 ppm

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250 ppm

· PAC-3:

CAS: 141-53-7 sodium formate

## 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: 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 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 · *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.* 

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· Body protection: Protective work clothing

| 9 Physical and chemical propert                                                                            | ies                                           |  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--|
| <ul> <li>Information on basic physical and c.</li> <li>General Information</li> <li>Appearance:</li> </ul> | hemical properties                            |  |
| Form:                                                                                                      | Liquid                                        |  |
| Color:                                                                                                     | Colorless                                     |  |
| · Odor:                                                                                                    | Odorless<br>Not determined                    |  |
| • Odor threshold:                                                                                          | Not determined.                               |  |
| · pH-value:                                                                                                | Not determined.                               |  |
| <ul> <li>Change in condition<br/>Melting point/Melting range:<br/>Boiling point/Boiling range:</li> </ul>  | 0 °C (32 °F)<br>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:<br>Lower:<br>Upper:                                                                    | Not determined.<br>Not determined.            |  |
| · Vapor pressure at 20 °C (68 °F):                                                                         | 23 hPa (17.3 mm Hg)                           |  |
| • Density at 20 °C (68 °F):                                                                                | 1.00072 g/cm <sup>3</sup> (8.35101 lbs/gal)   |  |
| · Relative density                                                                                         | Not determined.                               |  |
| · Vapor density                                                                                            | Not determined.                               |  |
| · Evaporation rate                                                                                         | Not determined.                               |  |
| · Solubility in / Miscibility with<br>Water:                                                               | Fully miscible.                               |  |
| · Partition coefficient (n-octanol/water): Not determined.                                                 |                                               |  |
| · Viscosity:<br>Dynamic:<br>Kinematic:                                                                     | Not determined.<br>Not determined.            |  |
| · Solvent content:                                                                                         |                                               |  |
| Water:                                                                                                     | 99.8 %                                        |  |
| VOC content:                                                                                               | 0.00 %                                        |  |
|                                                                                                            | 0.0 g/l / 0.00 lb/gal                         |  |
| Solids content:                                                                                            | 0.2 %                                         |  |
| • 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:
- 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)

None of the ingredients is listed.

#### · 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.
- Additional ecological information:
- · General notes: Not hazardous for water.
- · 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: 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<br>DOT, ADN, IMDG, IATA                                 | Not regulated                                   |  |
| UN proper shipping name<br>DOT, ADN, IATA<br>IMDG                 | Not regulated<br>Not Regulated<br>Not regulated |  |
| Transport hazard class(es)                                        |                                                 |  |
| DOT, ADN, IMDG, IATA<br>Class                                     | Not regulated                                   |  |
| Packing group<br>DOT, IMDG, IATA                                  | Not regulated                                   |  |
| Environmental hazards:                                            | Not applicable.                                 |  |
| Special precautions for user                                      | Not applicable.                                 |  |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | II of<br>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.              |                    |
| Section 313 (Specific toxic chemical listings): |                    |
| None of the ingredients is listed.              |                    |
| · TSCA (Toxic Substances Control Act):          |                    |
| Water                                           | ACTIVE             |
| sodium formate                                  | ACTIVE             |
| · Hazardous Air Pollutants                      |                    |
| None of the ingredients is listed.              |                    |
|                                                 | (Contd. on page 7) |
|                                                 |                    |

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# · 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 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.

Store in a closed container.

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, 08-16-2024: Reviewed SDS for accuracy. STN/GW 08/16/2024 / 1.1
 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)

PBT: Persistent, Bioaccumulative and Toxic

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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 • \* Data compared to the previous version altered.

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