Printing date 06/13/2024

Reviewed on 06/13/2024

1 Identification

- · Product identifier
- Trade name: <u>GC Calibration Standard Level 4</u> 1,000 ppm w/w IPA:TAA:VA:TBA
- · Article number: HON183
- \cdot 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 2 H351 Suspected of causing cancer.

· Label elements

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



· Signal word Warning · Hazard-determining components of labeling: Vinyl Acetate, Reagent Grade · Hazard statements Suspected of causing 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 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. IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

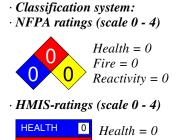
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· Other hazards

· 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 components:			
CAS: 108-05-4	Vinyl Acetate, Reagent Grade	0.1%	
· Table of Nonhazardous Ingredients			
CAS: 7732-18-5	Water	99.6%	
CAS: 67-63-0	Isopropanol	0.1%	
CAS: 75-65-0	tert-Butyl Alcohol	0.1%	
CAS: 75-85-4	2-methyl-2-butanol	0.1%	

4 First-aid measures

- · Description of first aid measures
- · 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.

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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.

 $\cdot \textit{Environmental precautions: Dilute with plenty of water.}$

 \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:

· PAC-I:		
CAS: 67-63-0	Isopropanol	400 ppm
CAS: 75-65-0	tert-Butyl Alcohol	150 ppm
CAS: 108-05-4	Vinyl Acetate, Reagent Grade	6.7 ppm
· PAC-2:		
CAS: 67-63-0	Isopropanol	2000* ppm
CAS: 75-65-0	tert-Butyl Alcohol	1,300 ppm
CAS: 108-05-4	Vinyl Acetate, Reagent Grade	36 ppm
· PAC-3:		
CAS: 67-63-0	Isopropanol	12000** ppm
CAS: 75-65-0	tert-Butyl Alcohol	8000* ppm
CAS: 108-05-4	Vinyl Acetate, Reagent Grade	180 ppm

7 Handling and storage

· Handling:

- · Precautions for safe handling 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 section 7.

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• Components with limit valu	es that require monitoring at the workplace:
CAS: 108-05-4 Vinyl Acetat	
REL Ceiling limit value: 15	
*15-min	ingin , + ppm
TLV Short-term value: 15 p	
Long-term value: 10 pj A3	pm
	e lists that were valid during the creation were used as basis.
-	isis indi were valia adding the creation were used as basis.
Exposure controls Personal protective equipme	ont.
General protective and hygi	
Keep away from foodstuffs, l	
Wash hands before breaks a	
Store protective clothing sep	
Breathing equipment: Not r	
Protection of hands:	1
,	
Protective gloves	
The glove material has to be	impermeable and resistant to the product/ the substance/ the preparation.
	ommendation to the glove material can be given for the product/ the preparation/ the
chemical mixture.	minendullon to the give material can be given jor the product the preparation i
	ial on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	a on consideration of the penetration times, rates of affasion and the degradation
	gloves does not only depend on the material, but also on further marks of quality as
	manufacturer. As the product is a preparation of several substances, the resistance
	e calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove m	
	me has to be found out by the manufacturer of the protective gloves and has to
observed.	
Eye protection: Goggles rec	ommended during refilling.
Body protection: Protective	
	~
Physical and chemical	properaes
Information on basic physic	cal and chemical properties
General Information	
Appearance:	· · · · ·
Form:	Liquid
Color:	Colorless
Odor:	Characteristic
	Not determined.
Odor threshold:	
	Not determined.
Odor threshold:	Not determined.

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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.	
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):	0.9993 g/cm³ (8.33916 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:	0.1 %	
Water:	99.6 %	
VOC content:	0.10 %	
	1.0 g/l / 0.01 lb/gal	
Solids content:	0.1 %	
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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3 2B

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.
- \cdot Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 67-63-0 Isopropanol

CAS: 108-05-4 Vinyl Acetate, Reagent Grade

· 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.

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.

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· UN-Number		
· DOT, IMDG, IATA	Not regulated	
· UN proper shipping name · DOT, IMDG, IATA	Not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA		
· Class	Not regulated	
· Packing group		
· DOT, IMDG, IATA	Not regulated	
· Environmental hazards:	Not applicable.	
· 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

 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
Sara
Section 355 (extremely hazardous substances): CAS: 108-05-4 Vinyl Acetate, Reagent Grade

· Section 313 (Specific toxic chemical listings):

CAS: 67-63-0 Isopropanol

CAS: 75-65-0 tert-Butyl Alcohol

CAS: 108-05-4 Vinyl Acetate, Reagent Grade

· TSCA (Toxic Substances Control Act):		
Water	ACTIVE	
Isopropanol	ACTIVE	
tert-Butyl Alcohol	ACTIVE	
2-methyl-2-butanol	ACTIVE	
Vinyl Acetate, Reagent Grade	ACTIVE	

· Hazardous Air Pollutants

CAS: 108-05-4 Vinyl Acetate, Reagent Grade

· 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.

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SC

A4 A4

A3

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: 75-65-0 tert-Butyl Alcohol

· TLV (Threshold Limit Value)

CAS: 67-63-0 Isopropanol

CAS: 75-65-0 tert-Butyl Alcohol

CAS: 108-05-4 Vinyl Acetate, Reagent Grade

· 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). • *Hazard pictograms*



- · Signal word Warning
- *Hazard-determining components of labeling: Vinyl Acetate, Reagent Grade*
- · Hazard statements
- Suspected of causing 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 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.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

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, 06/13/2024: Reviewed SDS for accuracy. MH/STN

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US

• 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 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 2: Carcinogenicity – Category 2 \cdot * Data compared to the previous version altered.