Printing date 07/25/2024 Reviewed on 07/25/2024

1 Identification

· Product identifier

· Trade name: OH lvl 3

· Article number: HON197

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



GHS02 Flame

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.



GHS07

Skin Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

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







GHS02

GHS07

GHS08

- · Signal word Danger
- Hazard-determining components of labeling:

Isopropanol

Acetaldehyde, Reagent ACS Grade

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· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

May cause drowsiness or dizziness.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

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



Health = 2Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 3

· Other hazards

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

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3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous com	ponents:			
CAS: 67-63-0	Isopropanol	50.0%		
	tert-Butyl Alcohol	2.0%		
	2-methyl-2-butanol	1.0%		
CAS: 625-23-0	2-Methyl-2-Hexanol	1.0%		
CAS: 75-07-0	Acetaldehyde, Reagent ACS Grade	0.5%		
•	· Table of Nonhazardous Ingredients			
CAS: 7732-18-3	5 Water	45.0%		
CAS: 79-10-7	Acrylic Acid	0.5%		

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 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

Wear protective equipment. Keep unprotected persons away.

· 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.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· 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

1 research errer and the estimates	
PAC-1:	
CAS: 67-63-0 Isopropanol	400 ppm
CAS: 75-65-0 tert-Butyl Alcohol	150 ppm
CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade	45 ppm
CAS: 79-10-7 Acrylic Acid	1.5 ppm
· PAC-2:	
CAS: 67-63-0 Isopropanol	2000* ppm
CAS: 75-65-0 tert-Butyl Alcohol	1,300 ppm
CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade	270 ppm
CAS: 79-10-7 Acrylic Acid	46 ppm
· PAC-3:	
CAS: 67-63-0 Isopropanol	12000** ppm
CAS: 75-65-0 tert-Butyl Alcohol	8000* ppm
CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade	840 ppm
CAS: 79-10-7 Acrylic Acid	180 ppm
· · · · · · · · · · · · · · · · · · ·	

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· 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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· Control parameters

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

CAS: 67-63-0 Isopropanol PEL Long-term value: 980 mg/m³, 400 ppm REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm TLV Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4 CAS: 75-65-0 tert-Butyl Alcohol PEL Long-term value: 300 mg/m³, 100 ppm REL Short-term value: 450 mg/m³, 150 ppm Long-term value: 300 mg/m³, 100 ppm TLV Long-term value: 100 ppm CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade PEL Long-term value: 360 mg/m³, 200 ppm REL See Pocket Guide Apps. A and C Ceiling limit value: 25 ppm

· Ingredients with biological limit values:

CAS: 67-63-0 Isopropanol

BEI 40 mg/L

LD50 Intraperitoneal: urine

Time: end of shift at end of workweek
LD50: Acetone (background, nonspecific)

- · 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.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· 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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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

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· Information	on basic	physical	and c	hemical	properties

· General Information

· Appearance:

Form: Liquid Color: Clear

· Odor: Characteristic · Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:Undetermined.Boiling point/Boiling range:82 °C (179.6 °F)

• Flash point: 13 °C (55.4 °F)

· Flammability (solid, gaseous): Highly flammable.

• **Decomposition temperature:** Not determined.

• **Ignition temperature:** Product is not selfigniting.

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapor

mixtures are possible.

· Explosion limits:

 Lower:
 2 Vol %

 Upper:
 12 Vol %

• Vapor pressure at 20 °C (68 °F): 43 hPa (32.3 mm Hg)

• **Density at 20 °C (68 °F):** 0.88329 g/cm³ (7.37106 lbs/gal)

Relative density
 Vapor density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

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		(Contd. of page
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	50.0 %	
Water:	45.0 %	
VOC content:	50.00 %	
	441.6 g/l / 3.69 lb/gal	
Solids content:	2.5 %	
· 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.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:					
ATE (Acu	te Toxicity	Estimate)			
Oral	LD50	100,000 mg/kg (rat)			
Inhalative	Inhalative LC50/4h 367 mg/l				

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)			
CAS: 67-63-0 Isopropanol	3		
CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade	2B		
CAS: 79-10-7 Acrylic Acid	3		

· NTP (National Toxicology Program)

CAS: 75-07-0	Acetaldehyd	le, Reagent ACS	Grade
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· 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:

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:

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.

14 Transport information

- · UN-Number · DOT, IMDG, IATA UN1993
- · UN proper shipping name
- · DOT Flammable liquids, n.o.s. (Isopropanol
 · IMDG, IATA FLAMMABLE LIQUID, N.O.S. (Isopropanol
- · Transport hazard class(es)
- $\cdot DOT$



Class 3 Flammable liquids

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	(Contd. of pa
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code)	: 33
EMS Number:	F- E , S - D
Segregation groups	(SGG1) Acids
Stowage Category	В
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	not appreciate.
•	
DOT	On passenger aircraft/rail: 5 L
Quantity limitations	On passenger aircraftrait. 3 L On cargo aircraft only: 60 L
	On cargo aircraft only. 60 L
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL
), 3, II

15 Regulatory information

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

· Sara	v	
· Section 355 (exti	remely hazardous substances):	

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

CAS: 67-63-0 Isopropanol

CAS: 75-65-0 tert-Butyl Alcohol

CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade

CAS: 79-10-7 Acrylic Acid

· TSCA (Toxic Substances Control Act):

Isopropanol ACTIVE

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	(Contd. of pa
Water	ACTI
tert-Butyl Alcohol	ACTI
2-methyl-2-butanol	ACTI
Acetaldehyde, Reagent ACS Grade	ACTI
Acrylic Acid	ACTI
· Hazardous Air Pollutants	
CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade	
CAS: 79-10-7 Acrylic Acid	
Proposition 65	
· Chemicals known to cause cancer:	
CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade	
· 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)				
CAS: 75-65-0 tert-Butyl Alcohol	SC			
CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade	B2			
· TLV (Threshold Limit Value)	· TLV (Threshold Limit Value)			
CAS: 67-63-0 Isopropanol	A4			
CAS: 75-65-0 tert-Butyl Alcohol	A4			
CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade	A3			
CAS: 79-10-7 Acrylic Acid	A4			
· NIOSH-Ca (National Institute for Occupational Safety and Health)				

CAS: 75-07-0 Acetaldehyde, Reagent ACS Grade

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







GHS02

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Isopropanol

Acetaldehyde, Reagent ACS Grade

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

May cause drowsiness or dizziness.

(Contd. on page 11)

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Trade name: OH lvl 3

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· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

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, 07-25-2024: Reviewed SDS for accuracy. STN/GW 07/25/2024 / -

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

 ${\it EINECS: European\ Inventory\ of\ Existing\ Commercial\ Chemical\ Substances}$

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

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

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REL: Recommended Exposure Limit BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.