Printing date 04/11/2022

Reviewed on 04/11/2022

Identification	
Product identifier	
Trade name: <u>BHT Standard 0 ppm w/v</u> in Isooctane	
Article number: SAY010	
Details of the supplier of the safety data sh Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	heet AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	s.org
Hazard(s) identification	
Flammable Liquids 2	U225 Highly flammable liquid and varian
GHS08 Health hazard	H225 Highly flammable liquid and vapor.
GHS08 Health hazard Aspiration Hazard 1 GHS07	H304 May be fatal if swallowed and enters airways.
Aspiration Hazard 1 GHS07 Skin Irrititation 2	
Aspiration Hazard 1 GHS07 Skin Irrititation 2 Specific Target Organ Toxicity - Single Exp Label elements	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.
Aspiration Hazard 1 GHS07 Skin Irrititation 2 Specific Target Organ Toxicity - Single Exp Label elements GHS label elements The product is classifi	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. posure 3 H336 May cause drowsiness or dizziness.
Aspiration Hazard 1 Skin Irrititation 2 Specific Target Organ Toxicity - Single Exp Label elements GHS label elements The product is classifit Hazard pictograms	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. posure 3 H336 May cause drowsiness or dizziness.
Aspiration Hazard 1 Skin Irrititation 2 Specific Target Organ Toxicity - Single Exp Label elements GHS label elements The product is classifit Hazard pictograms GHS02 GHS07 GHS07 GHS08	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. posure 3 H336 May cause drowsiness or dizziness. ied and labeled according to the Globally Harmonized System (GHS)

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	ntd. of page 1)
Causes skin irritation.	
May cause drowsiness or dizziness.	
May be fatal if swallowed and enters airways.	
· Precautionary statements	
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 swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
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.	
Call a poison center/doctor if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: 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 = 1	
Fire = 3	
$\mathbf{V} = 0$	
· HMIS-ratings (scale 0 - 4)	
mms (seure o - +)	
HEALTH 1 $Health = 1$	
FIRE 3 $Fire = 3$	
REACTIVITY $\begin{bmatrix} 0 \end{bmatrix}$ Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• PBT: Not applicable.	
· vPvB: Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	
• Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions.	
• •	
· Dangerous components:	
CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	>99.0%

(Contd. on page 3)

US

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Trade name: BHT Standard 0 ppm w/v in Isooctane

(Contd. of page 2)

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.
- · 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.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 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.
- 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 item 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

· PAC-1:

- All components have the value 230 ppm.
- · PAC-2:
- All components have the value 830 ppm.

• PAC-3:

All components have the value 5000* ppm.

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7 Handling and storage

- · Handling:
- *Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.*
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 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 item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

- TLV Long-term value: 300 ppm
- · 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.
- Avoid contact with the skin.

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.

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.

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• 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

General Information Appearance: Form: Liquid Color: Colorless Odor Sweetish Odor threshold: Not determined. pH-value: Not determined. Change in condition Metting point/Melting range: Metting point/Melting range: -107 °C (-160.6 °F) Boiling point/Boiling range: 98-99 °C (208.4-210.2 °F) Flash point: -12 °C (10.4 °F) Flammability (solid, gaseous): Not applicable. Ignition temperature: A10 °C (770 °F) Decomposition temperature: Not determined. Auto igniting: Product is not selfigniting. Danger of explosion: Product is not sexplosive. However, formation of explosive air/vap mixtures are possible. Explosion limits: Lover: Lover: 1.1 Vol % Upper: 6 Vol % Vapor pressure at 20 °C (68 *F): 5.0.692 g/cm ³ (-5.5.77474 lbs/gal) Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Not determined. <	Information on basic physical and o	chemical properties		
Form:Liquid Color:Colorless ColorlessOdor:SweetishOdor threshold:Not determined.pH-value:Not determined.pH-value:Not determined.Change in condition Melting point/Melting range: Boiling point/Boiling range:-107 °C (-160.6 °F) Section 2008.4-210.2 °F)Flash point:-12 °C (10.4 °F)Flammability (solid, gaseous):Not applicable.Ignition temperature:410 °C (770 °F)Decomposition temperature:Not determined.Auto igniting:Product is not selfigniting.Danger of explosion:Product is not selfigniting.Darger of explosion:1.1 Vol % (Vapor pressure at 20 °C (68 °F):Solubility at 20 °C (68 °F):>0.692 g/cm³ (>5.77474 lbs/gal)Relative densityNot determined.Vapor densityNot determined.Solubility in / Miscibility with Water:Not determined.Solubility in / Miscibility with Water:Not miscible or difficult to mix.Partition coefficient (n-octanol/water): Not determined.Not determined.Viscosity:Viscosity:				
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Solubility in / Miscibility with Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity:				
Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity:	Evaporation rate	Not determined.		
Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity:	Solubility in / Miscibility with			
Viscosity:	Water:	Not miscible or difficult to mix.		
	Partition coefficient (n-octanol/wate	e r): Not determined.		
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Trade name: BHT Standard 0 ppm w/v in Isooctane

		(Contd. of page 5)
Kinematic:	Not determined.	
• Solvent content: Organic solvents: VOC content:	>99.0 % >99.00 % >685.1 g/l / >5.72 lb/gal	
Solids content:	0.0 %	
• 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:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No 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)

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.

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• Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even 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.

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	
DOT, IMDG, IATA	UN1262
UN proper shipping name	
DOT	Octanes
IMDG	OCTANES, MARINE POLLUTANT
IATA	OCTANES
Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	3
IMDG	
AV.	
Class	3 Flammable liquids

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	(Contd. of page
IATA	
3	
Class	3 Flammable liquids
Label	3 Tranmable liquids 3
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Product contains environmentally hazardous substances: Octane
Marine pollutant:	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler co	
EMS Number:	F-E,S-E
Stowage Category	В
Transport in bulk according to Annex II	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1262 OCTANES, 3, II

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):

2,2,4-Trimethylpentane (Iso-Octane)

· Hazardous Air Pollutants

All ingredients are listed.

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ACTIVE

US

Printing date 04/11/2022

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Trade name: BHT Standard 0 ppm w/v

in Isooctane

(Contd. of page 8)

· 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)

All components have the value II.

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



· Signal word Danger

· Hazard-determining components of labeling: 2,2,4-Trimethylpentane (Iso-Octane) · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. · Precautionary statements 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 swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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. Call a poison center/doctor if you feel unwell.

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Printing date 04/11/2022

Reviewed on 04/11/2022

Trade name: BHT Standard 0 ppm w/v in Isooctane

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Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: 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 Revision 0.0 04-11-2022: Creation date for SDS. STN/JH 04/11/2022 / -

· 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 Flammable Liquids 2: Flammable liquids – Category 2 Skin Irrititation 2: Skin corrosion/irritation – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Aspiration Hazard 1: Aspiration hazard – Category 1