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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	aqua Solutions
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions. Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	org
Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS08 Health hazard	
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.
GHS07	
Skin Irritation 2	H315 Causes skin irritation.
	posure 3 H336 May cause drowsiness or dizziness.
Label elements GHS label elements The product is classifie Hazard pictograms	ed and labeled according to the Globally Harmonized System (GHS)
GHS02 GHS07 GHS08	
GHS02 GHS07 GHS08 Signal word Danger Hazard-determining components of labelin 2,2,4-Trimethylpentane (Iso-Octane) Hazard statements	ıg:

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		(Contd. of page 1)
Causes skin irr	itation.	
	wsiness or dizziness.	
	swallowed and enters airways.	
• Precautionary		
	m heat/sparks/open flames/hot surfaces No smoking.	
	container and receiving equipment.	
	proof electrical/ventilating/lighting/equipment.	
Use only non-s		
	nary measures against static discharge.	
	g dust/fume/gas/mist/vapors/spray	
	nly after handling.	
	ors or in a well-ventilated area.	
	e gloves/protective clothing/eye protection/face protection.	
	mmediately call a poison center/doctor.	
	ent (see on this label).	
Do NOT induc		
	air): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
	Remove person to fresh air and keep comfortable for breathing.	
	enter/doctor if you feel unwell.	
	ninated clothing and wash it before reuse.	
	n occurs: Get medical advice/attention.	
	Use CO2, powder or water spray to extinguish.	
	-ventilated place. Keep container tightly closed.	
	ventilated place. Keep cool.	
Store locked up		
	tents/container in accordance with local/regional/national/international regulations	
· Classification		
· NFPA ratings	<i>(scale 0 - 4)</i>	
	Health = 1	
	Fire $= 3$	
	Reactivity = 0	
• HMIS-ratings	•	
· HMIS-ruings	(scule 0 - 4)	
HEALTH 1	Health = 1	
	Fire = 3	
	Reactivity = 0	
• Other hazards		
	T and vPvB assessment	
• <b>PBT:</b> Not appl		
• <b>vPvB:</b> Not app	licable.	
<b>3</b> Composition	n/information on ingredients	
Chaminal al	un stavizations Mintunas	
	racterization: Mixtures	
	<i>fixture of the substances listed below with nonhazardous additions.</i>	
· Dangerous con	-	
CAS: 540-84-1	2,2,4-Trimethylpentane (Iso-Octane)	>99.0%
		US —

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### 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 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

#### · 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 section 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:



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties
General Information Appearance:	
Form:	Liquid
Color:	Colorless
Odor:	Sweetish
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-107.4 °C (-161.3 °F)
Boiling point/Boiling range:	98-99 °C (208.4-210.2 °F)
Flash point:	-12 °C (10.4 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	410 °C (770 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	6 Vol %
Vapor pressure at 20 °C (68 °F):	15 hPa (11.3 mm Hg)
Density at 20 °C (68 °F):	>0.692 g/cm <sup>3</sup> (>5.77474 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	<b>r</b> ): Not determined.
Viscosity: Dynamic at 20 °C (68 °F):	0.51 mPas
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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		
Class	3 Flammable liquids	

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	(Contd. of page
IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
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	ode): 33
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)	IL
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 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.	
Γ	Section 313 (Specific toxic chemical listings):	
	None of the ingredients is listed.	
Γ	• TSCA (Toxic Substances Control Act):	
	2,2,4-Trimethylpentane (Iso-Octane)	ACTIVE
Γ	· Hazardous Air Pollutants	
	All ingredients are listed.	
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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)

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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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:* • Date of preparation / last revision Revision 1.2, 07-26-2024: Reviewed SDS for accuracy. STN/GW 07/26/2024 / 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 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 Irritation 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 • \* Data compared to the previous version altered.