Printing date 03/10/2020

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Level 3Article number: ARI014Details of the supplier of the safety data sheetAqua Solutions, Inc.6913 Highway 225DEER PARK, TX 77536USA800-256-2586Information department:Technical CoordinatorSherman Nelson sherman @aquasolutions.orgEmergency Leiphone number:Chemitree: 800-424-9300Canuce: 613-996-6666Information of the substance or mixture \widetilde{W} \widetilde{W} GHS02 FlameFlam. Liq. 2 H225 Highly flammable liquid and vapor. \widetilde{W} \widetilde{W} GHS02 FlameFlam. Liq. 2 H225 Highly flammable liquid and vapor. \widetilde{W} \widetilde{W} \widetilde{W} GHS03 Blealth hazardAsp. Tox. 1H304 May be fatal if swallowed and enters airways. \widetilde{W}	Identification	
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Trade name: AO-Original Level 3

Hazard statements	(Contd. of page
Highly flammable liquid and vapor.	
Causes skin irritation.	
May cause an allergic skin reaction.	
May cause an anergic skin reaction. May cause drowsiness or dizziness.	
May cause arowsiness of alzaness. 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.	
Contaminated work clothing must not be allowed out of the workplace.	
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/showe	r.
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 or rash occurs: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
In case of fire: Use for extinction: CO2, powder or water spray.	
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 regulatio	ons.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 1	
$\frac{3}{Fire = 3}$	
$\frac{1}{1} \frac{1}{1} \frac{1}$	
$\mathbf{V} = \mathbf{V}$	
HMIS-ratings (scale 0 - 4)	
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.	
<i>v</i>PvB: Not applicable.	
PVB: Not additedie.	

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

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Trade name: AO-Original Level 3

		(Contd. of page 2)	
· Dangerous compo	· Dangerous components:		
CAS: 110-82-7	Cyclohexane	98.2%	
CAS: 26523-78-4	tris(nonylphenyl) phosphite	1.0%	
• Table of Nonhaza	· Table of Nonhazardous Ingredients		
CAS: 2082-79-3	<i>Irganox</i> ®	0.5%	
CAS: 110553-27-0	0 2-Methyl-4,6-bis[(n-octylthio)methyl]phenol	0.3%	

4 First-aid measures

· Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

• After inhalation: Supply fresh air and to be sure call for a doctor.

- 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 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:

CAS: 110-82-7 Cyclohexane

300 ppm

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10000** ppm

1700* ppm

• PAC-3:

· PAC-2:

CAS: 110-82-7 Cyclohexane

CAS: 110-82-7 Cyclohexane

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.
- \cdot 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS: 110-82-7 Cyclohexane

- PEL Long-term value: 1050 mg/m³, 300 ppm
- REL Long-term value: 1050 mg/m³, 300 ppm
- TLV Long-term value: 344 mg/m³, 100 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.

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(Contd. of page 4)

· 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:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties
General Information	
Appearance: Form:	1:
Form: Color:	Liquid Clear to pale vallow
Odor:	Clear to pale yellow Strong
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	6.4 °C (43.5 °F)
Boiling point/Boiling range:	81 °C (177.8 °F)
Flash point:	-18 °C (-64.4 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	260 °C (500 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1.2 Vol %

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Upper:	8.3 Vol %	
· Vapor pressure at 20 °C (68 °F):	104 hPa (78 mm Hg)	
· Density at 20 °C (68 °F):	0.78 g/cm ³ (6.5091 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
<i>Water at 20 °C (68 °F):</i>	0.05 g/l	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic at 20 °C (68 °F):	0.94 mPas	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	98.2 %	
VOC content:	98.20 %	
	982.0 g/l / 8.20 lb/gal	
Solids content:	0.5 %	
• 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:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · 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.

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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 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	UN1993
· UN proper shipping name	
· DOT	Flammable liquids, n.o.s. (Cyclohexane)
· IMDG	FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE), MARIN
	POLLUTANT
·IATA	FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE)
· Transport hazard class(es)	
·DOT	
PLAMARE LIQUD	
PAMABLE LOOD	
· Class	3 Flammable liquids

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	(Contd. of page
· Label	3
· IMDG	
· Class	3 Flammable liquids
· Label	3
·IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	11
· Environmental hazards:	Product contains environmentally hazardous substance: Cyclohexane
· Marine pollutant:	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E,S-D
· Stowage Category	В
• Transport in bulk according to Annex A MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
·IMDG	
· Limited quantities (LQ)	5L
· 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 1993 FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE), 3, II

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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Section 313 (Specific toxic chemical listings):	
CAS: 110-82-7 Cyclohexane	
TSCA (Toxic Substances Control Act):	
Cyclohexane	ACTIV
tris(nonylphenyl) phosphite	ACTIV
Irganox®	ACTIV
2-Methyl-4,6-bis[(n-octylthio)methyl]phenol	ACTIV
Hazardous Air Pollutants	
None of the ingredients is listed.	
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)

CAS: 110-82-7 Cyclohexane

· TLV (Threshold Limit Value established by ACGIH)

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: Cyclohexane tris(nonylphenyl) phosphite
Hazard statements Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. 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.

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Safety Data Sheet acc. to OSHA HCS

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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.	
Contaminated work clothing must not be allowed out of the workplace.	
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 or rash occurs: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
In case of fire: Use for extinction: CO2, powder or water spray.	
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, 03-09-2020: Creation date for SDS. STN 03/10/2020 / -• Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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 Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard - Category 1