Printing date 03/12/2020

Reviewed on 03/12/2020

· Product identifier	
• Trade name: <u>Hex Analysis</u> Level 1	
• Article number: ARL022	
• Details of the supplier of the safety data sheet • Manufacturer/Supplier:	
Aqua Solutions, Inc.	
6913 Highway 225	SOLUTIONS
DEER PARK, TX 77536	
USA 800-256-2586	
• Information department: Technical Coordinator	
Sherman Nelson sherman@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	
Flam. Liq. 2 H225 Highly flammable liquid and vapor.	
$\land \qquad \qquad$	
GHS08 Health hazard	
Gilboo Heann nazara	
	ld.
Repr. 2H361 Suspected of damaging fertility or the unborn child	
Repr. 2H361 Suspected of damaging fertility or the unborn childSTOT RE 2H373 May cause damage to organs through prolonged	
Repr. 2H361 Suspected of damaging fertility or the unborn child	
Repr. 2 H361 Suspected of damaging fertility or the unborn chi. STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.	
Repr. 2H361 Suspected of damaging fertility or the unborn childSTOT RE 2H373 May cause damage to organs through prolonged	
Repr. 2 H361 Suspected of damaging fertility or the unborn chin STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.	
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Repr. 2 H361 Suspected of damaging fertility or the unborn chin STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness.	
Repr. 2 H361 Suspected of damaging fertility or the unborn chin STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. • Label elements	or repeated exposure.
Repr. 2 H361 Suspected of damaging fertility or the unborn chin STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness.	or repeated exposure.
Repr. 2 H361 Suspected of damaging fertility or the unborn chin STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements GHS label elements The product is classified and labeled according t	or repeated exposure.
Repr. 2 H361 Suspected of damaging fertility or the unborn chin STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements GHS label elements The product is classified and labeled according t	or repeated exposure.
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Repr. 2 H361 Suspected of damaging fertility or the unborn chin STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements GHS label elements The product is classified and labeled according t	or repeated exposure.
Repr. 2 H361 Suspected of damaging fertility or the unborn child STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Image: Construct of the image	or repeated exposure.
Repr. 2 H361 Suspected of damaging fertility or the unborn chi. STOT RE 2 H373 May cause damage to organs through prolonged Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Image: GHS07 GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. Image: Label elements GHS07 GHS1 label elements The product is classified and labeled according to the trace of the trace o	or repeated exposure.

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Trade name: Hex Analysis Level 1

	(Contd. of page 1)
Hexane	
Dimethylbutane	
2,3-Dimethylbutane 98%	
3-Methylpentane	
Methylcyclopentane 98%	
Hexanes (From Petroleum)	
· Hazard statements	
Highly flammable liquid and vapor.	
Causes skin irritation.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
· 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.	
Do not breathe 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/showe	r.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
<i>Get medical advice/attention if you feel unwell.</i>	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
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	ns
· Classification system:	115.
· NFPA ratings (scale 0 - 4)	
Health = 1	
Fire = 3	
1 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH 1 Health = 1	
FIRE 3 Fire = 3	
$\frac{1}{\text{REACTIVITY}} \begin{bmatrix} 0 \\ 0 \end{bmatrix} Reactivity = 0$	
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(Contd. of page 2)

· 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 con	•	
CAS: 110-82-7	Cyclohexane	90.599%
CAS: 110-54-3	Hexane	6.278%
• Table of Nonho	zardous Ingredients	
CAS: 75-83-2	Dimethylbutane	0.628%
CAS: 79-29-8	2,3-Dimethylbutane 98%	0.628%
CAS: 96-14-0	3-Methylpentane	0.623%
CAS: 96-37-7	Methylcyclopentane 98%	0.623%
CAS: 107-83-5	Hexanes (From Petroleum)	0.623%

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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
- \cdot Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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Personal precai	ttions, protective equipment and emergency procedures	
	ry protective device.	
	equipment. Keep unprotected persons away.	
	precautions: Do not allow to enter sewers/ surface or ground water.	
	aterial for containment and cleaning up: uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	inated material as waste according to item 13.	
Ensure adequat		
Reference to oth	her sections	
	r information on safe handling.	
	r information on personal protection equipment.	
	or disposal information. n Criteria for Chemicals	
PAC-1:	n Churna for Chumuus	
CAS: 110-82-7	Cyclohexane	300 ppm
CAS: 110-54-3	Hexane	260 ppm
CAS: 75-83-2	Dimethylbutane	1,000 ppm
CAS: 96-14-0 3-Methylpentane		1,000 ppm
CAS: 96-37-7	Methylcyclopentane 98%	14 ppm
CAS: 107-83-5	Hexanes (From Petroleum)	1,000 ppm
<i>PAC-2:</i>		
CAS: 110-82-7	Cyclohexane	1700* ppm
CAS: 110-54-3	Hexane	2900* ppm
CAS: 75-83-2	Dimethylbutane	11000** ppm
CAS: 96-14-0	3-Methylpentane	11000** ppm
CAS: 96-37-7	Methylcyclopentane 98%	160 ppm
CAS: 107-83-5	Hexanes (From Petroleum)	11000** ppm
PAC-3:		
CAS: 110-82-7	Cyclohexane 1	10000** ppm
CAS: 110-54-3	Hexane 8	8600** ppm
CAS: 75-83-2	Dimethylbutane d	56000*** ppm
CAS: 96-14-0	3-Methylpentane	56000*** ppn
		940 ppm
CAS: 107-83-5	Hexanes (From Petroleum)	66000*** 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.

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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 item 7.

· Control parameters

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

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

CAS: 110-54-3 Hexane

PEL Long-term value: 1800 mg/m³, 500 ppm

REL Long-term value: 180 mg/m³, 50 ppm

TLV Long-term value: 176 mg/m³, 50 ppm Skin; BEI

· Ingredients with biological limit values:

CAS: 110-54-3 Hexane

BEI 0.4 mg/L

LD50 Intraperitoneal: urine

Time: end of shift at end of workweek

LD50: 2.5-Hexanedione without hydrolysis

• 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 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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· 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 General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	Clear-Pale Yellow
Odor:	Strong
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	69 °C (156.2 °F)
Flash point:	-26 °C (-78.8 °F)
Flammability (solid, gaseous):	Not applicable.
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 %
Upper:	8.3 Vol %

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	(Contd.	. of page 6
· Vapor pressure at 20 °C (68 °F):	104 hPa (78 mm Hg)	
• Density at 20 °C (68 °F):	0.76924 g/cm ³ (6.41931 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	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	97.5 %	
VOC content:	98.13 %	
	754.8 g/l / 6.30 lb/gal	
Solids content:	0.6 %	
• 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.

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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, Hexanes)
·IMDG	FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE, HEXANES
	HEXANES, HEXANES, HEXANES), MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE, HEXANES)
· Transport hazard class(es)	
·DOT	
RAMARE LOUD	
· Class	3 Flammable liquids

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	(Contd. of pag
Label	3
IMDG	
Class Label	3 Flammable liquids 3
	5
IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	Π
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	
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)	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. (CYCLOHEXAN)
-	HEXANES), 3, II

15 Regulatory information

· 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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	(Contd. of page
Section 313 (Specific toxic chemical listings):	
CAS: 110-82-7 Cyclohexane	
CAS: 110-54-3 Hexane	
· TSCA (Toxic Substances Control Act):	
Cyclohexane	ACTIVI
Hexane	ACTIVI
Dimethylbutane	ACTIVI
2,3-Dimethylbutane 98%	ACTIVI
3-Methylpentane	ACTIVI
Methylcyclopentane 98%	ACTIVI
Hexanes (From Petroleum)	ACTIVI
Hazardous Air Pollutants	
CAS: 110-54-3 Hexane	
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:	
CAS: 110-54-3 Hexane	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
CAS: 110-82-7 Cyclohexane	1
CAS: 110-54-3 Hexane	1
TLV (Threshold Limit Value established by ACGIH)	
TLV (Threshold Limit Value established by ACGIH) 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 Hexane Dimethylbutane 2,3-Dimethylbutane 98%

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	(Contd. of page 10)
3-Methylpentane	
Methylcyclopentane 98%	
Hexanes (From Petroleum)	
· Hazard statements	
Highly flammable liquid and vapor.	
Causes skin irritation.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
· 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.	
Do not breathe 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.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention 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 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 regulation	<i>15</i> .
• 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, 03-11-2020: Creation date for SDS. STN 03/12/2020 / -*
- 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

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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	
BEI: Biological Exposure Limit	
Flam. Liq. 2: Flammable liquids – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Repr. 2: Reproductive toxicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
	US