Printing date 06/06/2024

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Reviewed on 06/06/2024

Identification	
· Product identifier	
• Trade name: <u>Calibration Standard</u> ASTM D6379-A	
<u>ASIM D6379-A</u> • Article number: HOU061	
• Details of the supplier of the safety a	lata sheet
· Manufacturer/Supplier:	
Aqua Solutions, Inc. 6913 Highway 225	SOLUTIONS
DEER PARK, TX 77536	
USA 800-256-2586	
· Information department:	
Technical Coordinator	lutions are
Sherman Nelson shermann@aquasol • Emergency telephone number:	unons.org
Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Cunulet: 015-990-0000	
2 Hazard(s) identification	
• Classification of the substance or m	ixture
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS08 Health hazard	
GHS08 Health hazard Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.
	H304 May be fatal if swallowed and enters airways.
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.
Aspiration Hazard 1 GHS07 Skin Irritation 2	
Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Sing • Label elements	H315 Causes skin irritation.
Aspiration Hazard 1 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Sing • Label elements • GHS label elements The product is c	H315 Causes skin irritation. gle Exposure 3 H336 May cause drowsiness or dizziness.
Aspiration Hazard 1 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Sing • Label elements • GHS label elements The product is c	H315 Causes skin irritation. gle Exposure 3 H336 May cause drowsiness or dizziness.
Aspiration Hazard 1 Skin Irritation 2 Specific Target Organ Toxicity - Sing Label elements GHS label elements The product is c Hazard pictograms Hazard pictograms	H315 Causes skin irritation. gle Exposure 3 H336 May cause drowsiness or dizziness.
Aspiration Hazard 1 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Sing Label elements GHS label elements The product is c Hazard pictograms GHS02 GHS07 GHS07 GHS08 Signal word Danger Hazard-determining components of	H315 Causes skin irritation. gle Exposure 3 H336 May cause drowsiness or dizziness. classified and labeled according to the Globally Harmonized System (GHS).
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Trade name: Calibration Standard ASTM D6379-A

Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.		
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Results of PBT and vPvB assessment PBT: Not applicable.		
PBT: Not applicable.		
vPvB: Not applicable.		
	vPvB: Not applicable.	

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

· Dangerous components:

CAS: 142-82-5 *n*-Heptane

(Contd. on page 3)

66.086%

US

Printing date 06/06/2024

Reviewed on 06/06/2024

Trade name: Calibration Standard ASTM D6379-A

	(Cor	ntd. of page 2)
CAS: 95-47-6	o-Xylene	20.349%
CAS: 90-12-0	1-methylnaphthalene	6.783%
CAS: 110-82-7	Cyclohexane	6.783%

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:	
	500
CAS: 142-82-5 n-Heptane	500 ppm
CAS: 90-12-0 1-methylnaphthalene	20 mg/m
CAS: 110-82-7 Cyclohexane	300 ppm
	Contd. on page

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		(Contd. of page 3)
· PAC-2:		
CAS: 142-82-5	n-Heptane	830 ppm
	1-methylnaphthalene	61 mg/m ³
CAS: 110-82-7	Cyclohexane	1700* ppm
· PAC-3:		
CAS: 142-82-5	n-Heptane	5000* ppm
CAS: 90-12-0	1-methylnaphthalene	360 mg/m ³
CAS: 110-82-7	Cyclohexane	10000** ppm

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

· Com	· Components with limit values that require monitoring at the workplace:	
CAS:	: 142-82-5 n-Heptane	
PEL	Long-term value: 2000 mg/m ³ , 500 ppm	
REL	Long-term value: 350 mg/m³, 85 ppm Ceiling limit value: 1800* mg/m³, 440* ppm *15-min	
TLV	Short-term value: 500 ppm Long-term value: 400 ppm	
CAS:	95-47-6 o-Xylene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm	
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm BEI, A4	
	(Contd. on page 5)	

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	(Contd. of page 4)
CAS	: 90-12-0 1-methylnaphthalene
TLV	Long-term value: 0.05 ppm
	SL 3 mg/100 cm2, Skin, A4
CAS	: 110-82-7 Cyclohexane
PEL	Long-term value: 1050 mg/m ³ , 300 ppm
REL	Long-term value: 1050 mg/m³, 300 ppm
TLV	Long-term value: 100 ppm BEI
· Ingr	edients with biological limit values:
CAS	: 95-47-6 o-Xylene
BEI	1.5 g/g creatinine
	LD50 Intraperitoneal: urine
	Time: end of shift
CAS	LD50: Methylhippuric acids
	: 110-82-7 Cyclohexane
BEI	NIC-50 mg/g creatinine LD50 Intraperitoneal: -
	Time: end of shift at end of workweek
	LD50: NIC-1.2-Cyclohexanediol (nonspecific)
· Add	itional information: The lists that were valid during the creation were used as basis.
·Exp	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work. d contact with the skin.
	d contact with the eyes and skin.
	ithing equipment:
	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us
	iratory protective device that is independent of circulating air.
· Prot	ection of hands:
U	Protective gloves
Due	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
	nical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	wind of allows

· 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.

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• Eye protection:



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and cl	hemical properties
General Information	
Appearance:	x , , y
Form: Color:	Liquid Clear
Odor:	Organic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	81 °C (177.8 °F)
Flash point:	-18 °C (-0.4 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	215 °C (419 °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:	7.6 Vol %
Vapor pressure at 20 °C (68 °F):	48 hPa (36 mm Hg)
Vapor pressure at 50 °C (122 °F):	190 hPa (142.5 mm Hg)
Density at 20 °C (68 °F):	0.74946 g/cm ³ (6.25424 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/water	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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		(Contd. of page 6)
• Solvent content: Organic solvents: VOC content:	93.2 % 93.22 % 698.6 g/l / 5.83 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:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

 Oral
 LD50
 27,127 mg/kg (rat)

 Dermal
 LD50
 5,406 mg/kg

Inhalative LC50/4h 54.1 mg/l

· 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)	

CAS: 95-47-6 o-Xylene

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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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.

• Recommendation: Disposal must be made according to official regulations.

· UN-Number · DOT, IMDG, IATA	UN1993
	0111773
· UN proper shipping name	
· DOT	Flammable liquids, n.o.s. (n-Heptane, o-Xylene, Cyclohexane)
·IMDG	FLAMMABLE LIQUID, N.O.S. (n-Heptane, o-Xylen
	Cyclohexane, 1-methylnaphthalene), MARINE POLLUTANT
·IATA	FLAMMABLE LIQUID, N.O.S. (n-Heptane, o-Xyler
	Cyclohexane)
• Transport hazard class(es)	
DOT	
Class	3 Flammable liquids

[·] Uncleaned packagings:

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Label	(Contd. of pag
IMDG	
Class	3 Flammable liquids
Label	3
IATA	
V	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	11
Environmental hazards:	Product contains environmentally hazardous substances:
	Heptane
Marine pollutant:	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number: Stowage Category	F-E,S-D B
	D
Transport in bulk according to Annex II of	
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. (N-HEPTANE, C
	XYLENE, CYCLOHEXANE), 3, II

15 Regulatory information

*

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

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Sara		(Contd. of page
Section 355 (ex	tremely hazardous substances):	
None of the ing	redients is listed.	
Section 313 (Sp	pecific toxic chemical listings):	
CAS: 95-47-6	o-Xylene	
CAS: 110-82-7	Cyclohexane	
TSCA (Toxic S	ubstances Control Act):	
n-Heptane		ACTIV
o-Xylene		ACTIV
1-methylnaphth	alene	ACTIV
Cyclohexane		ACTIV
Hazardous Air	Pollutants	· · ·
CAS: 95-47-6	p-Xylene	
Proposition 65		
Chemicals know	wn to cause cancer:	
None of the ing	redients is listed.	
Chemicals kno	wn to cause reproductive toxicity for females:	
None of the ing	redients is listed.	
Chemicals know	wn to cause reproductive toxicity for males:	
None of the ing	redients is listed.	
Chemicals know	wn to cause developmental toxicity:	
	redients is listed.	
Carcinogenic c	ategories	
EPA (Environn	nental Protection Agency)	
CAS: 142-82-5	n-Heptane	1
CAS: 95-47-6	o-Xylene	1
CAS: 110-82-7	Cyclohexane	1
TLV (Threshol	d Limit Value)	·
CAS: 95-47-6	p-Xylene	A
CAS: 90-12-0	1-methylnaphthalene	A
NIOSH-Ca (Na	tional Institute for Occupational Safety and Health)	
	redients is listed.	
<u>CHR1111</u>		

• *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: n-Heptane Cyclohexane*

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· 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/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 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 regulatio	ns.
• 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, 06/05/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/06/2024 · 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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	(Conta. of page 1
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	
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.	