Printing date 06/03/2024

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Trade name: From the Index Std. II: 8 - 20 MG BR (1000); Article number: TEN223 Details of the supplier of the safety data sheet Manufacturer/Supplier: Agua Solutions, Inc. Oil's Highway 225 DEER PARK, TX 7736 USA 800-256-2586 Information department: Technical Coordinator Sherman Nelson shermanu@aquasolutions.org Emergency telephone number: Chemtree: 800-424-9300 Canutee: 61502-449 Of Store Selection Harard(s) identification Classification of the substance or mixture Image: Selection Selection Flammable Liquids 2 H225 Highly flammable liquid and vapor. Image: GHS07 GHS08 Health hazard Shir Irritation 2 H315 Causes skin irritation. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness. Label elements Label elements List Subje Leements Filson List Subje Leements Filson GHS02 GHS03 Signal word Danger Hacard labeled according to the Globally Harmonized System (Identification Product identifier		
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Article number: TEN222 Details of the supplier of the safety data sheet Manufacturer/Supplier: Aqua Solitions, Inc. 6913 Highway 225 DEER PARK, TX 77336 USA 800-25-2586 Information department: Technical Coordinator Sherman Nelson shermanu@aquasolutions.org Emergency telephone number: Chamma Nelson shermanu@aquasolutions.org Emergency telephone number: Chammable Liquids 2 H225 Highly flammable liquid and vapor. $\widetilde{\psi}$ GHS02 Flame Flammable Liquids 2 H304 May be fatal if swallowed and enters airways. $\widetilde{\psi}$ GHS07 Skin Irritation 2 Sher Irritation 2 H315 Causes skin irritation. Specific Target Organ Toxicity - S			
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Trade name: Bromine Index Std. 18 - 20 MG BR /100G Reviewed on 06/03/2024

	(Contd. 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	
$\frac{3}{Fire = 3}$	
$\frac{1}{1} \frac{1}{1} \frac{1}$	
Kedcuvuy = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH 3 Health = 3	
FIRE 3 Fire = 3	
REACTIVITY 0 Reactivity = 0	
• 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 components:

CAS: 142-82-5 n-Heptane

90.823% (Contd. on page 3)

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Trade name: Bromine Index Std. 18 - 20 MG BR /100G

> (Contd. of page 2) 9.177%

CAS: 110-83-8 Cyclohexene

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.

\cdot 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:		
CAS: 142-82-5	n-Heptane	500 ppm
CAS: 110-83-8	Cyclohexene	900 ppm
· PAC-2:		
CAS: 142-82-5	1	830 ppm
CAS: 110-83-8	Cyclohexene	1,700 ppm
		(Contd. on page 4

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Trade name: Bromine Index Std. 18 - 20 MG BR /100G

(Contd. of page 3)

· PAC-3:		
CAS: 142-82-5	n-Heptane	5000* ppm
CAS: 110-83-8	Cyclohexene	10,000 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
- \cdot Components with limit values that require monitoring at the workplace:

CAS: 142-82-5 n-Heptane

- PEL Long-term value: 2000 mg/m³, 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: 110-83-8 Cyclohexene

- PEL Long-term value: 1015 mg/m³, 300 ppm
- *REL* Long-term value: 1015 mg/m³, 300 ppm
- TLV Long-term value: 20 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.

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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.

· 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:	Liquid	
Color:	Clear	
Odor:	Heptane	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	83 °C (181.4 °F)	
Flash point:	-12 °C (10.4 °F)	
Flammability (solid, gaseous):	Highly flammable.	
Auto igniting:	215 °C (419 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	

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Trade name: Bromine Index Std. 18 - 20 MG BR /100G

	(Contd. of page
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	6.7 Vol %
· Vapor pressure at 20 °C (68 °F):	48 hPa (36 mm Hg)
· Density at 20 °C (68 °F):	0.69341 g/cm ³ (5.78651 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	e r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	90.8 %
VOC content:	90.82 %
	629.8 g/l / 5.26 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 21,139 mg/kg (rat)

Dermal LD50 2,179 mg/kg (rabbit)

· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: No irritating effect.

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• 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.
- · 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	
$\cdot DOT$	Flammable liquids, n.o.s. (n-Heptane)
· IMDG	FLAMMABLE LIQUID, N.O.S. (n-Heptane), MARIN
	POLLUTANT

----US

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	(Contd. of page
IATA	FLAMMABLE LIQUID, N.O.S. (n-Heptane)
Transport hazard class(es)	
DOT	
FLAMABLE LOUD	
Class	3 Flammable liquids
Label	3
IMDG	
Class Label	3 Flammable liquids 3
	5
IATA	
3	
Class	2 Elammable liquide
Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: n
Marine pollutant:	Heptane Yes
	Symbol (fish and tree)
Special processions for upon	
Special precautions for user Hazard identification number (Kemler code)	Warning: Flammable liquids : 33
EMS Number:	<i>F-E,S-E</i>
Stowage Category	B
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
Quantity limitations	On passenger aircraft only: 60 L
MDC	
IMDG Limited quantities (LO)	IL
Limited quantities (LQ) Excepted quantities (EQ)	IL Code: E2
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 50 ml
	(Contd. on page

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· UN ''Model Regulation'':

UN 1993 FLAMMABLE LIQUID, N.O.S. (N-HEPTANE), 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):	
n-Heptane	ACTIVE
Cyclohexene	ACTIVE
· 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:	

· EPA (Environmental Protection Agency)

CAS: 142-82-5 n-Heptane

• 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: nHeptane*

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Trade name: Bromine Index Std. 18 - 20 MG BR /100G

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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/show	ver.
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 regular	tions.
· 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, 06/03/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 12-11-2014. STN 06/03/2024 · 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

(Contd. on page 11)

US

Printing date 06/03/2024

Reviewed on 06/03/2024

Trade name: Bromine Index Std. 18 - 20 MG BR /100G

(Contd. of page 10)

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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.	