Printing date 05/13/2024

Reviewed on 05/13/2024

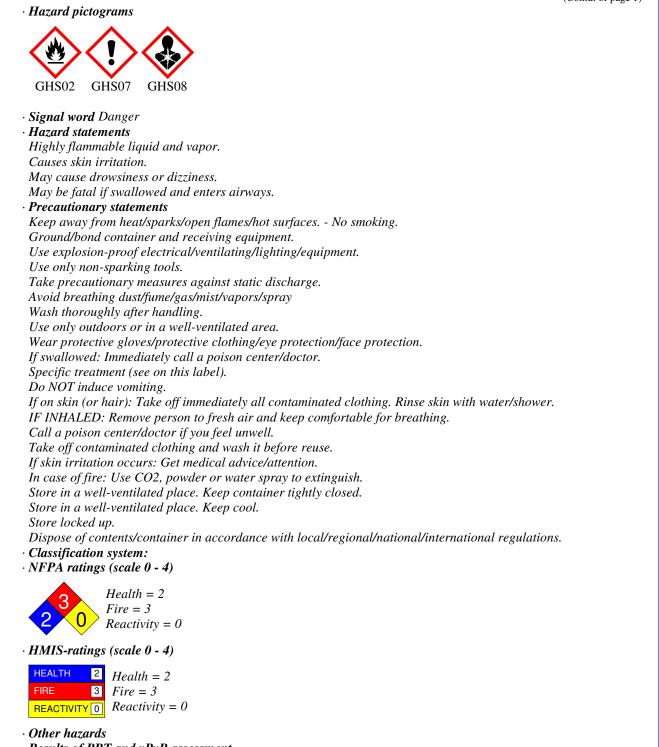
· Trade name: <u>n-Heptane, HPLC Grade</u> 9	<u>19+%</u>
· Article number: H1904	
· CAS Number:	
142-82-5 • <b>EC number:</b>	
205-563-8	
· Index number:	SOLUTIONS
601-008-00-2	JOEDHONS
· Details of the supplier of the safety data	sheet
· Manufacturer/Supplier:	
Aqua Solutions, Inc.	
6913 Highway 225 DEER PARK, TX 77536	
USA	
800-256-2586	
· Information department:	
Technical Coordinator	
Sherman Nelson shermann@aquasolution	ns.org
Technical Coordinator	
Sherman Nelson shermann@aquasolution • Emergency telephone number:	ns.org
Chemtrec: 800-424-9300	
Canutec: 613-996-6666	
2 Hazard(s) identification	
	re
2 Hazard(s) identification · Classification of the substance or mixtur	re
	re
Classification of the substance or mixtur	
• Classification of the substance or mixtur	e H225 Highly flammable liquid and vapor.
Classification of the substance or mixtur	
Classification of the substance or mixtur	
Classification of the substance or mixtur GHS02 Flame Flammable Liquids 2 GHS08 Health hazard	H225 Highly flammable liquid and vapor.
Classification of the substance or mixtur GHS02 Flame Flammable Liquids 2	
Classification of the substance or mixtur GHS02 Flame Flammable Liquids 2 GHS08 Health hazard	H225 Highly flammable liquid and vapor.
Classification of the substance or mixtur GHS02 Flame Flammable Liquids 2 GHS08 Health hazard	H225 Highly flammable liquid and vapor.
Classification of the substance or mixtur GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Aspiration Hazard 1	H225 Highly flammable liquid and vapor.
Classification of the substance or mixtur GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Aspiration Hazard 1	H225 Highly flammable liquid and vapor.
Classification of the substance or mixtur GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Aspiration Hazard 1 GHS07 Skin Irritation 2	H225 Highly flammable liquid and vapor. H304 May be fatal if swallowed and enters airways.

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(Contd. of page 1)



- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- CAS: 142-82-5 n-Heptane
- · Identification number(s)
- EC number: 205-563-8
- Index number: 601-008-00-2

#### 4 First-aid measures

- · Description of first aid measures
- 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 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 ppm
- · PAC-2: 830 ppm
- · PAC-3: 5000\* ppm

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## 7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- 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: 142-82-5 n-Heptane

PEL Long-term value: 2000 mg/m<sup>3</sup>, 500 ppm

- REL Long-term value: 350 mg/m<sup>3</sup>, 85 ppm Ceiling limit value: 1800\* mg/m<sup>3</sup>, 440\* ppm \*15-min
- TLV Short-term value: 500 ppm Long-term value: 400 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: Not required.
- 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 (Contd. on page 5)

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· 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.

· 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

# 9 Physical and chemical properties

Form:LiquidColor:ColorlessOdor:Gasoline-likeOdor threshold:Not determined.pH-value:Not determined.• pH-value:Not determined.• Change in condition Melting point/Melting range:-90.5 °C (-130.9 °F) Boiling point/Boiling range:98 °C (208.4 °F)• Flash point:-4 °C (24.8 °F)• Flammability (solid, gaseous):Highly flammable.• Auto igniting:215 °C (419 °F)• Decomposition temperature:Not determined.• Ignition temperature:Not determined.• Danger of explosion:Product is not explosive. However, formation of explosive a mixtures are possible.• Explosion limits: Lower:1.1 Vol % (Upper:• Vapor pressure at 20 °C (68 °F):48 hPa (36 mm Hg) (36.746 lbs/gal)• Vapor pressure at 50 °C (122 °F):190 hPa (142.5 mm Hg)• Density at 20 °C (68 °F):0.68 g/cm³ (5.6746 lbs/gal)• Relative densityNot determined.• Vapor densityNot determined.	eneral Information ppearance:	
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<ul> <li>Change in condition Melting point/Melting range: -90.5 °C (-130.9 °F) Boiling point/Boiling range: 98 °C (208.4 °F)</li> <li>Flash point: -4 °C (24.8 °F)</li> <li>Flammability (solid, gaseous): Highly flammable.</li> <li>Auto igniting: 215 °C (419 °F)</li> <li>Decomposition temperature: Not determined.</li> <li>Ignition temperature: Not determined.</li> <li>Janger of explosion: Product is not explosive. However, formation of explosive a mixtures are possible.</li> <li>Explosion limits: Lower: 1.1 Vol % Upper: 6.7 Vol %</li> <li>Vapor pressure at 20 °C (68 °F): 48 hPa (36 mm Hg)</li> <li>Vapor pressure at 50 °C (122 °F): 190 hPa (142.5 mm Hg)</li> <li>Density at 20 °C (68 °F): 0.68 g/cm<sup>3</sup> (5.6746 lbs/gal)</li> <li>Relative density Not determined.</li> </ul>	dor threshold:	Not determined.
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• Ignition temperature:       Not determined.         • Danger of explosion:       Product is not explosive. However, formation of explosive a mixtures are possible.         • Explosion limits:       I.1 Vol %         Lower:       1.1 Vol %         Upper:       6.7 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):       0.68 g/cm³ (5.6746 lbs/gal)         • Relative density       Not determined.         • Vapor density       Not determined.	uto igniting:	215 °C (419 °F)
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• Relative density     Not determined.       • Vapor density     Not determined.		
• Vapor density Not determined.	ensity at 20 °C (68 °F):	0.68 g/cm <sup>3</sup> (5.6746 lbs/gal)
· · · · · · · · · · · · · · · · · · ·		
• Evaporation rate Not determined.	······································	
	vaporation rate	Not determined.
• Solubility in / Miscibility with Water at 20 °C (68 °F): 0.05 g/l		0.05 g/l

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· Viscosity: *Dynamic at 20 °C (68 °F):* Kinematic:

0.4 mPas Not determined.

• 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:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not 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 (Assessment by list): 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.

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# **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	UN1206
UN proper shipping name	
DOT	Heptanes
IMDG	HEPTANES, MARINE POLLUTANT
IATA	HEPTANES
Transport hazard class(es)	
Class	3 Flammable liquids
Label	3
IMDG	
Class Label	3 Flammable liquids 3
IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Environmentally hazardous substance, liquid; Marine Pollutan
Marine pollutant:	No
*	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler cod	
EMS Number:	F-E,S-D

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· Stowage Category	В
• 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
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	IL Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1206 HEPTANES, 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): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.

· Carcinogenic categories

- · EPA (Environmental Protection Agency) D
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



Signal word Danger
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.

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	(Contd. of page 8)
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 regulation	<i>s</i> .
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

# **16 Other information**

· Department issuing SDS: Environment protection department.

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.

· Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 05/13/2024: Reviewed SDS for accuracy. MH/STN 05/13/2024 · 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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.