Printing date 08/24/2022 Reviewed on 08/24/2022

1 Identification

· Product identifier

· Trade name: Cyclohexanone 99.8% Cyclohexanone

· Article number: LEI016

· CAS Number: 108-94-1 · EC number: 203-631-1

· Index number: 606-010-00-7

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA800-256-2586

· Information department:

Technical Coordinator

Sherman Nelson shermann@aquasolutions.org

· Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666



2 Hazard(s) identification

· Classification of the substance or mixture



Flammable Liquids 3 H226 Flammable liquid and vapor.



GHS07

Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

- · Label elements
- · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS02

GHS07

- · Signal word Warning
- · Hazard statements

Flammable liquid and vapor.

Harmful if inhaled.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Contd. on page 2)

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Trade name: Cyclohexanone 99.8% Cyclohexanone

(Contd. of page 1)

Keep container tightly closed.

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

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

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.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 2Reactivity = 0

· HMIS-ratings (scale 0 - 4)



1 Health = 1 Fire = 2

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

3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description

CAS: 108-94-1 Cyclohexanone 99.8%

- · Identification number(s)
- · EC number: 203-631-1
- · Index number: 606-010-00-7

4 First-aid measures

- · Description of first aid measures
- · General information:

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

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 3)

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Trade name: Cyclohexanone 99.8% Cyclohexanone

(Contd. of page 2)

- · 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: Mouth respiratory protective device.

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).

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:** 60 ppm
- · PAC-2: 830 ppm
- · PAC-3: 5000* ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

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(Contd. of page 3)

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: 108-94-1 Cyclohexanone 99.8%

PEL Long-term value: 200 mg/m³, 50 ppm

REL Long-term value: 100 mg/m³, 25 ppm

Skin

TLV Short-term value: 50 ppm

Long-term value: 20 ppm

Skin, BEI, A3

· Ingredients with biological limit values:

CAS: 108-94-1 Cyclohexanone 99.8%

BEI 80 mg/L

LD50 Intraperitoneal: urine

Time: end of shift at end of workweek

LD50: 1.2-Cyclohexanediol (with hydrolysis, nonspecific, nonquantitative)

8 mg/L

LD50 Intraperitoneal: urine

Time: end of shift

LD50: Cyclohexanol (with hydrolysis, nonspecific, nonquantitative)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · 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:

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.

· 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

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· Body protection: Protective work clothing

(Contd. of page 4)

Physical and chemical propert	ties
· Information on basic physical and co · General Information	
· Appearance:	*
Form:	Liquid
Color:	Clear
· Odor: · Odor threshold:	Pepper-like Not determined.
· pH-value:	Not determined.
	1101 determined.
· Change in condition	26 °C (70 ° °E)
Melting point/Melting range: Boiling point/Boiling range:	26 °C (78.8 °F) 153-156 °C (307.4-312.8 °F)
01 0	· · · · · · · · · · · · · · · · · · ·
· Flash point:	43 °C (109.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	420 °C (788 °F)
Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
· Explosion limits:	
Lower:	1.3 Vol %
Upper:	9.4 Vol %
· Vapor pressure at 20 °C (68 °F):	5 hPa (3.8 mm Hg)
Density at 20 °C (68 °F):	0.95 g/cm³ (7.92775 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water at 20 °C (68 °F):	80 g/l
Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
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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.

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- · 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:

Inhalative LC50/4h 11 mg/l (ATE)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 3
- · 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 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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.

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· UN-Number · DOT, IMDG, IATA UN1915 · UN proper shipping name · DOT · Cyclohexanone · IMDG, IATA CYCLOHEXANONE · Transport hazard class(es) · DOT		
DOT, IMDG, IATA UN1915 UN proper shipping name DOT IMDG, IATA Cyclohexanone CYCLOHEXANONE Class Class Label Class Label Class A Flammable liquids A Flammable liquids B Flammable liquids	4 Transport information	
UN proper shipping name DOT Cyclohexanone IMDG, IATA CYCLOHEXANONE Transport hazard class(es) DOT Class 3 Flammable liquids 3 IMDG, IATA Signature of the state of the st		UN1915
Class 3 Flammable liquids		
Transport hazard class(es) DOT Class 3 Flammable liquids Label 3 Class 3 Flammable liquids Label 3 Class 1 Flammable liquids Label 3 Packing group DOT, IMDG, IATA III Environmental hazards: Marine pollutant: No Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 30 Ensist of the state of	$\cdot DOT$	
Class 3 Flammable liquids Label 3 IMDG, IATA Class 3 Flammable liquids Label 3 Packing group DOT, IMDG, IATA III Environmental hazards: Marine pollutant: No Special precautions for user Hazard identification number (Kemler code): 30 EMS Number: F-E,S-D Stowage Category A Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Transport/Additional information: DOT Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L Stowage Claunities (LQ) Limited quantities (LQ) Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	· IMDG, IATA	CYCLOHEXANONE
Class . Label	· Transport hazard class(es)	
- Label 3 - IMDG, IATA - Class 3 Flammable liquids - Label 3 - Packing group - DOT, IMDG, IATA - III - Environmental hazards: - Marine pollutant: - No - Special precautions for user - Hazard identification number (Kemler code): 30 - EMS Number: - F-E,S-D - Stowage Category - A - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code - Transport/Additional information: - DOT - Quantity limitations - On passenger aircraft/rail: 60 L - On cargo aircraft only: 220 L - Hazardous substance: - 5000 lbs, 2270 kg - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) - Code: E1 - Maximum net quantity per inner packaging: 30 ml - Maximum net quantity per outer packaging: 1000 ml	· DOT	
- Label 3 - IMDG, IATA - Class 3 Flammable liquids - Label 3 - Packing group - DOT, IMDG, IATA - III - Environmental hazards: - Marine pollutant: - No - Special precautions for user - Hazard identification number (Kemler code): 30 - EMS Number: - F-E,S-D - Stowage Category - A - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code - Transport/Additional information: - DOT - Quantity limitations - On passenger aircraft/rail: 60 L - On cargo aircraft only: 220 L - Hazardous substance: - 5000 lbs, 2270 kg - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) - Code: E1 - Maximum net quantity per inner packaging: 30 ml - Maximum net quantity per outer packaging: 1000 ml	RAMMINE LIQUO	
Class 3 Flammable liquids Label 3 Packing group DOT, IMDG, IATA III Environmental hazards: Marine pollutant: No Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 30 EMS Number: F-E,S-D Stowage Category A 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: 60 L On cargo aircraft only: 220 L 5000 lbs, 2270 kg IMDG Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	· Class	
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- Label 3 - Packing group - DOT, IMDG, IATA III - Environmental hazards: - Marine pollutant: No - Special precautions for user Warning: Flammable liquids - Hazard identification number (Kemler code): 30 - EMS Number: F-E,S-D - Stowage Category A - 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: 60 L On cargo aircraft only: 220 L - Hazardous substance: 5000 lbs, 2270 kg - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) - Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	· IMDG, IATA	
- Label 3 - Packing group - DOT, IMDG, IATA III - Environmental hazards: - Marine pollutant: No - Special precautions for user Warning: Flammable liquids - Hazard identification number (Kemler code): 30 - EMS Number: F-E,S-D - Stowage Category A - 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: 60 L On cargo aircraft only: 220 L - Hazardous substance: 5000 lbs, 2270 kg - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) - Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml		
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DOT, IMDG, IATA Environmental hazards: Marine pollutant: No Special precautions for user Hazard identification number (Kemler code): 30 EMS Number: Stowage Category A 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: 60 L On cargo aircraft only: 220 L Hazardous substance: Stowage Category A Not applicable. Transport/Additional information: Con passenger aircraft/rail: 60 L On cargo aircraft only: 220 L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	· Label	3
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Stowage Category Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Transport/Additional information: DOT Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L Hazardous substance: 5000 lbs, 2270 kg IMDG Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	· Hazard identification number (Kemler code): 30
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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) Substance is not listed.
- · TLV (Threshold Limit Value) A3
- · 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





GHS02

GHS07

- · Signal word Warning
- · Hazard statements

Flammable liquid and vapor.

Harmful if inhaled.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

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

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

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.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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, 08-24-2022 Creation date for SDS. STN/JH 08/24/2022 / 1.2

· 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Inhalation 4: Acute toxicity – Category 4

* Data compared to the previous version altered.