Printing date 05/15/2024 Reviewed on 05/15/2024

1 Identification

· Product identifier

· Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

· Article number: LEI012

· 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@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

Flammable Liquids 3 H226 Flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Toxicity - Dermal 3 H311 Toxic in contact with skin.



Acute Toxicity - Oral 4H302 Harmful if swallowed.Acute Toxicity - Inhalation 4H332 Harmful if inhaled.Skin Irritation 2H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye irritation. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

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







GHS02

GHS06

GHS07

· Signal word Danger

(Contd. on page 2)

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Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

(Contd. of page 1)

· Hazard-determining components of labeling:

Cyclohexanone 99.8% Methyl Ethyl Ketone

· Hazard statements

Flammable liquid and vapor.

Harmful if swallowed or if inhaled.

Toxic in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

· 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.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

Specific treatment (see on this label).

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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: 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 = 2 Fire = 2Reactivity = 0

· HMIS-ratings (scale 0 - 4)



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

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Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

(Contd. of page 2)

· vPvB: Not applicable.

3 Composition/information on ingredients

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

· Dangerous con	ponents:	
CAS: 108-94-1	Cyclohexanone 99.8%	73.335%
CAS: 78-93-3	Methyl Ethyl Ketone	26.665%

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.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· 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: Immediately wash with water and soap and rinse thoroughly.
- · After eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a 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).

Dispose contaminated material as waste according to section 13.

(Contd. on page 4)

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Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

(Contd. of page 3)

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: 108-94-1 Cyclohexanone 99.8%	60 ppm
CAS: 78-93-3 Methyl Ethyl Ketone	200 ppm
· PAC-2:	
CAS: 108-94-1 Cyclohexanone 99.8%	830 ppm
CAS: 78-93-3 Methyl Ethyl Ketone	2700* ppm
· PAC-3:	
CAS: 108-94-1 Cyclohexanone 99.8%	5000* ppm
CAS: 78-93-3 Methyl Ethyl Ketone	4000* 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: 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.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

· Con	troi parameters		
· Com	· Components with limit values that require monitoring at the workplace:		
CAS	S: 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		

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Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

(Contd. of page 4)

CAS: 78-93-3 Methyl Ethyl Ketone

PEL Long-term value: 590 mg/m³, 200 ppm

REL Short-term value: 885 mg/m³, 300 ppm

Long-term value: 590 mg/m³, 200 ppm

TLV Short-term value: NIC-150 (300) ppm

Long-term value: NIC-75 (200) ppm

BEI, NIC-Skin

· 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)

CAS: 78-93-3 Methyl Ethyl Ketone

BEI 2 mg/L

LD50 Intraperitoneal: urine

Time: end of shift

LD50: Methyl ethyl ketone (nonspecific)

- · 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 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.

(Contd. on page 6)

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Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

(Contd. of page 5)

· 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

Odor threshold: PH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Value: Va	Information on basic physical and o	chemical properties
Form: Color: Color: Coloress Odor: Offenic Odor threshold: Not determined. PH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Value: Value: Value: Value: Value: Value: Value: Value: Vapor pressure at 20 °C (68 °F): Vapor density Vapor density Value: Value		
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Odor: Odor threshold: Not determined. PH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: >34 °C (>93.2 °F) Flash point: <40 °C (<104 °F) Flammability (solid, gaseous): Flammable. Auto igniting: 420 °C (788 °F) Decomposition temperature: Not determined. Ignition temperature: Product is not selfigniting. Danger of explosion: Product is not explosive. However, formation of explosive air/s mixtures are possible. Explosion limits: Lower: 1.3 Vol % Upper: 11.5 Vol % Vapor pressure at 20 °C (68 °F): 105 hPa (78.8 mm Hg) Density at 20 °C (68 °F): 0.9068 g/cm³ (7.56725 lbs/gal) Relative density Not determined. Vapor density Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix.		
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Ignition temperature: Product is not selfigniting. Product is not explosive. However, formation of explosive air/s mixtures are possible. Explosion limits: Lower: Upper: 1.3 Vol % Upper: 11.5 Vol % Vapor pressure at 20 °C (68 °F): 105 hPa (78.8 mm Hg) Density at 20 °C (68 °F): Relative density Vapor density Not determined. Not determined. Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix.	Auto igniting:	420 °C (788 °F)
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Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix.	Vapor pressure at 20 °C (68 °F):	105 hPa (78.8 mm Hg)
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Vapor density Evaporation rate Not determined. Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix.		
Evaporation rate Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix.		Not determined.
Water: Not miscible or difficult to mix.	•	Not determined.
Water: Not miscible or difficult to mix.	Solubility in / Miscibility with	
D. C. C. C. L. L. L. M. J. L. L. L.	•	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water): Not determined.	Partition coefficient (n-octanol/wate	er): Not determined.
	Dynamic:	Not determined.

(Contd. on page 7)

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Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

		(Contd. of page 6
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	100.0 %	
VOC content:	100.00 %	
	906.8 g/l / 7.57 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 1	· LD/LC50 values that are relevant for classification:		
ATE (Acut	ATE (Acute Toxicity Estimate)		
Oral	LD50	682 mg/kg	
Dermal	LD50	409 mg/kg	
Inhalative	LC50/4h	15 mg/l	
Inhalative		, v	

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on	Cancer)

CAS: 108-94-1 Cyclohexanone 99.8%

3

· 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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Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

(Contd. of page 7)

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 (Self-assessment): 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.

14 Transport information

· UN-Number	
-------------	--

· **DOT**, **IMDG**, **IATA** UN1993

· UN proper shipping name

• **DOT** Flammable liquids, n.o.s. (Methyl Ethyl Ketone

, Cyclohexanone)

· IMDG, IATA FLAMMABLE LIQUID, N.O.S. (Methyl Ethyl Ketone

, Cyclohexanone)

- · Transport hazard class(es)
- $\cdot DOT$



· Class 3 Flammable liquids

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Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

	(Contd. of page
Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
·Label	3
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code) · EMS Number:	
· EMS Number: · Stowage Category	F-E, <u>S-E</u> 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: 60 L
	On cargo aircraft only: 220 L
· 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
TIN IIM - Jal Danalada	
· UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL ETH) KETONE
	, CYCLOHEXANONE), 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):

Cyclohexanone 99.8%

ACTIVE

(Contd. on page 10)

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Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

(Contd. of page 9) Methyl Ethyl Ketone **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: None of the ingredients is listed. · Carcinogenic categories · EPA (Environmental Protection Agency) CAS: 78-93-3 Methyl Ethyl Ketone Ι · TLV (Threshold Limit Value) CAS: 108-94-1 Cyclohexanone 99.8% A3· 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







GHS02

2

GHS06 GI

- · Signal word Danger
- · Hazard-determining components of labeling:

Cyclohexanone 99.8% Methyl Ethyl Ketone

· Hazard statements

Flammable liquid and vapor.

Harmful if swallowed or if inhaled.

Toxic in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

· 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.

(Contd. on page 11)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

(Contd. of page 10)

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

Specific treatment (see on this label).

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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: 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.

· 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, 05/15/2024: Reviewed SDS for accuracy. MH/STN 05/15/2024

· 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

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 - Oral 4: Acute toxicity - Category 4

Acute Toxicity - Dermal 3: Acute toxicity - Category 3

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

(Contd. on page 12)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Cyclohexanone/

Methyl Ethyl Ketone 70/30 v/v

(Contd. of page 11)

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 ·* Data compared to the previous version altered.

Creation date 03/12/14 LS