Printing date 05/15/2024

Reviewed on 05/15/2024

Product identifier	
Trade name: <u>Cyclohexanone /</u> <u>Tetrahydrofuran 50/50 v/v</u>	
Article number: LEI011	
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	AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS06 Skull and crossbones	
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
GHS08 Health hazard	
Carcinogenicity 2	H351 Suspected of causing cancer.
GHS07	
Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Skin Irritation 2	H315 Causes skin irritation.
Skin Irritation 2	H319 Causes serious eye irritation.
Eye Irritation 2A	
	re 3 H335 May cause respiratory irritation.

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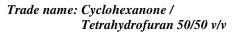
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Trade name: Cyclohexanone / Tetrahydrofuran 50/50 v/v



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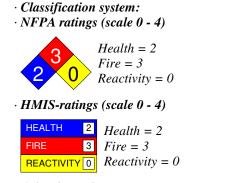
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(Contd. of page 2)

51.653%

48.347%



#### · 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: 108-94-1 Cyclohexanone 99.8%

CAS: 109-99-9 Tetrahydrofuran

#### **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: 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. 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

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Trade name: Cyclohexanone /

Tetrahydrofuran 50/50 v/v

(Contd. of page 3)

• 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:		
CAS: 108-94-1	Cyclohexanone 99.8%	60 ppm
CAS: 109-99-9	Tetrahydrofuran	100 ppm
· PAC-2:		
		830 ppm
CAS: 109-99-9	Tetrahydrofuran	500 ppm
. PAC-3.		

*PAC-3:* 

All components have the value 5000\* ppm.

## 7 Handling and storage

#### · Handling:

- $\cdot$  Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · 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.

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Trade name: Cyclohexanone / Tetrahydrofuran 50/50 v/v

(Contd. of page 4)

CAS: 108-94 PEL Long-t REL Long-t Skin TLV Short-t Long-t Skin, B CAS: 109-99 PEL Long-t REL Short-t Long-t TLV Short-t Long-t Skin, A Ingretients CAS: 108-94 BEI 80 mg/L LD50 I Time: e LD50 I Short-t LD50 I Time: e LD50 I LD50 I LD50 I	with limit values that require monitoring at the workplace: -1 Cyclohexanone 99.8% erm value: 200 mg/m <sup>3</sup> , 50 ppm erm value: 100 mg/m <sup>3</sup> , 25 ppm erm value: 50 ppm erm value: 20 ppm EI, A3 -9 Tetrahydrofuran erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 50 ppm grm value: 50 ppm erm value: 50 ppm grm value: 50 ppm erm value: 50 ppm erm value: 50 ppm s, BEI with biological limit values: -1 Cyclohexanone 99.8%
Components CAS: 108-94 PEL Long-t REL Long-t Skin TLV Short-t Long-t Skin, B CAS: 109-99 PEL Long-t CAS: 109-99 PEL Short-t Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/L LD50 I Time: e LD50: S8 mg/L CAS: 109-99 BEI 2 mg/L Time: e LD50 I Time: e LD	with limit values that require monitoring at the workplace: -1 Cyclohexanone 99.8% erm value: 200 mg/m <sup>3</sup> , 50 ppm erm value: 100 mg/m <sup>3</sup> , 25 ppm erm value: 50 ppm erm value: 20 ppm EI, A3 -9 Tetrahydrofuran erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 50 ppm 3, BEI with biological limit values: -1 Cyclohexanone 99.8% 
CAS: 108-94 PEL Long-t REL Long-t Skin TLV Short-t Long-t Skin, B CAS: 109-99 PEL Long-t REL Short-t Long-t TLV Short-t Long-t Skin, A Ingretients CAS: 108-94 BEI 80 mg/L LD50 I Time: e LD50 I Short-t LD50 I Time: e LD50 I LD50 I LD50 I	-1 Cyclohexanone 99.8% erm value: 200 mg/m³, 50 ppm erm value: 100 mg/m³, 25 ppm erm value: 50 ppm erm value: 20 ppm EI, A3 -9 Tetrahydrofuran erm value: 590 mg/m³, 200 ppm erm value: 590 mg/m³, 200 ppm erm value: 590 mg/m³, 200 ppm erm value: 50 ppm 3, BEI vith biological limit values: -1 Cyclohexanone 99.8% - utraperitoneal: urine nd of shift at end of workweek
PEL Long-t REL Skin TLV Short-t Long-t Skin, B CAS: 109-99 PEL Long-t REL Short-t Long-t Short-t Short-t Long-t Short-	erm value: 200 mg/m <sup>3</sup> , 50 ppm erm value: 100 mg/m <sup>3</sup> , 25 ppm erm value: 50 ppm erm value: 20 ppm EI, A3 -9 Tetrahydrofuran erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 735 mg/m <sup>3</sup> , 250 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 50 mg/m <sup>3</sup> , 200 ppm erm value: 50 ppm 3, BEI vith biological limit values: I-1 Cyclohexanone 99.8%
REL Long-t Skin TLV Short-t Long-t Skin, B CAS: 109-99 PEL Long-t Long-t Long-t Short-t Short	erm value: 100 mg/m <sup>3</sup> , 25 ppm erm value: 50 ppm erm value: 20 ppm EI, A3 -9 Tetrahydrofuran erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 735 mg/m <sup>3</sup> , 250 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 50 mg/m <sup>3</sup> , 200 ppm erm value: 50 ppm 3, BEI vith biological limit values: -1 Cyclohexanone 99.8%
Skin TLV Short-t Long-t Skin, B CAS: 109-99 PEL Long-t REL Short-t Long-t TLV Short-t Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/L LD50 I Time: e LD50: BEI 2 mg/L LD50 I Time: e LD50 I	erm value: 50 ppm erm value: 20 ppm EI, A3 -9 Tetrahydrofuran erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 735 mg/m <sup>3</sup> , 250 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 50 ppm 3, BEI with biological limit values: -1 Cyclohexanone 99.8% 
TLV Short-t Long-t Skin, B CAS: 109-99 PEL Long-t REL Short-t Long-t TLV Short-t Long-t Skin, A Ingretients CAS: 108-92 BEI 80 mg/L LD50 I Time: e LD50: S8 mg/L LD50 I Time: e LD50: BEI 2 mg/L LD50 I Time: e LD50 I	erm value: 20 ppm EI, A3 -9 Tetrahydrofuran erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 735 mg/m <sup>3</sup> , 250 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 50 ppm erm value: 50 ppm 3, BEI vith biological limit values: -1 Cyclohexanone 99.8%
Long-t Skin, B Skin, B PEL Long-t REL Short-t Long-t TLV Short-t Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/L LD50 L Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 L Time: e LD50 L	erm value: 20 ppm EI, A3 -9 Tetrahydrofuran erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 735 mg/m <sup>3</sup> , 250 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 50 ppm erm value: 50 ppm 3, BEI vith biological limit values: -1 Cyclohexanone 99.8%
Skin, B CAS: 109-99 PEL Long-t Long-t Long-t TLV Short-t Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/L LD50 I Time: e LD50 I Time: e LD50 I Time: e LD50 I Time: e LD50 I Time: e LD50 I	EI, A3 -9 Tetrahydrofuran erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 735 mg/m <sup>3</sup> , 250 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 50 ppm a, BEI vith biological limit values: -1 Cyclohexanone 99.8% - traperitoneal: urine nd of shift at end of workweek
CAS: 109-99 PEL Long-t REL Short-t Long-t TLV Short-t Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/L LD50 I Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50 I Time: e LD50 I	P-9 Tetrahydrofuran erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 735 mg/m <sup>3</sup> , 250 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 100 ppm erm value: 50 ppm 3, BEI vith biological limit values: P-1 Cyclohexanone 99.8% traperitoneal: urine nd of shift at end of workweek
PEL Long-t REL Short-t Long-t TLV Short-t Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/L LD50 I Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50 I	erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 735 mg/m <sup>3</sup> , 250 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 100 ppm erm value: 50 ppm 3, BEI vith biological limit values: -1 Cyclohexanone 99.8%
REL Short-t Long-t TLV Short-t Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/L LD50 I Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50 I Time: e	erm value: 735 mg/m <sup>3</sup> , 250 ppm erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 100 ppm erm value: 50 ppm 3, BEI vith biological limit values: -1 Cyclohexanone 99.8%
Long-t TLV Short-t Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/L LD50 L Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 L Time: e LD50 L Time: e LD50 L	erm value: 590 mg/m <sup>3</sup> , 200 ppm erm value: 100 ppm erm value: 50 ppm 3, BEI vith biological limit values: -1 Cyclohexanone 99.8% 
TLV Short-t Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/L LD50 I Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50 I Time: e LD50 I	erm value: 100 ppm erm value: 50 ppm 3, BEI with biological limit values: -1 Cyclohexanone 99.8% 
Long-t Skin, A Ingredients CAS: 108-94 BEI 80 mg/4 LD50 I Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50 I Time: e LD50 I	erm value: 50 ppm 3, BEI vith biological limit values: -1 Cyclohexanone 99.8% 
Skin, A Ingredients CAS: 108-94 BEI 80 mg/l LD50 L Time: e LD50: 8 mg/L LD50 L Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 L Time: e LD50:	3, BEI with biological limit values: -1 Cyclohexanone 99.8% 
CAS: 108-94 BEI 80 mg/l LD50 I Time: e LD50: 8 mg/L LD50 I Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50:	<b>I-1 Cyclohexanone 99.8%</b> .traperitoneal: urine nd of shift at end of workweek
CAS: 108-94 BEI 80 mg/l LD50 I Time: e LD50: 8 mg/L LD50 I Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50:	<b>I-1 Cyclohexanone 99.8%</b> .traperitoneal: urine nd of shift at end of workweek
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Time: e LD50: CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50:	stranguiton cal, uning
LD50: CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50:	ntraperitoneal: urine nd of shift
CAS: 109-99 BEI 2 mg/L LD50 I Time: e LD50:	Cyclohexanol (with hydrolysis, nonspecific, nonquantitative)
BEI 2 mg/L LD50 I Time: e LD50:	-9 Tetrahydrofuran
LD50 I Time: e LD50:	······································
Time: e LD50:	ntraperitoneal: urine
LD50:	nd of shift
	Tetrahydrofuran
	formation: The lists that were valid during the creation were used as basis.
	• -
Exposure co	ntrois tective equipment:
	ective equipment. ective and hygienic measures:
	om foodstuffs, beverages and feed.
	remove all soiled and contaminated clothing.
	before breaks and at the end of work.
Store protect	ive clothing separately.
	t with the eyes and skin.
Breathing eq	
In case of br respiratory p	uipment: ief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure

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Trade name: Cyclohexanone / Tetrahydrofuran 50/50 v/v

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· 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 General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Strong
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
<b>Boiling point/Boiling range:</b>	65 °C (149 °F)
Flash point:	-21 °C (-5.8 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	230 °C (446 °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:	1.3 Vol %

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#### Trade name: Cyclohexanone / Tetrahydrofuran 50/50 v/v

		(Contd. of page 6
Upper:	12 Vol %	
· Vapor pressure at 20 °C (68 °F):	200 hPa (150 mm Hg)	
• Density at 20 °C (68 °F):	0.9196 g/cm <sup>3</sup> (7.67406 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	<b>r):</b> Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	100.00 %	
	919.6 g/l / 7.67 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:

AT	E (Acute	Toxicity	Estimate)

Oral	LD50	968 mg/kg
Dermal	LD50	581 mg/kg
Inhalative	LC50/4h	21.3 mg/l

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

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

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3

2B

Trade name: Cyclohexanone /

Tetrahydrofuran 50/50 v/v

Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 108-94-1 Cyclohexanone 99.8%

CAS: 109-99-9 Tetrahydrofuran

· 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:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- 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.

· UN-Number	
· DOT, IMDG, IATA	UN1993
· UN proper shipping name	
$\cdot DOT$	Flammable liquids, n.o.s. (Tetrahydrofuran, Cyclohexanone)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Tetrahydrofura)
	Cyclohexanone)

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Trade name:	Cyclohexanone /
	Tetrahydrofuran 50/50 v/v

	(Contd. of page
• Transport hazard class(es)	
DOT	
3	
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code)	
· EMS Number: · Stowage Category	F-E, <u>S-E</u> B
0 01	D
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
	Noi applicable.
• Transport/Additional information:	
· Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· IMDG	17
· Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2
· Excepted quantities (EQ)	<i>Maximum net quantity per inner packaging: 30 ml</i>
	Maximum net quantity per outer packaging: 50 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S
or mouthequilitier .	(TETRAHYDROFURAN, 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.

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US

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Trade name: Cyclohexanone /

Tetrahydrofuran 50/50 v/v

	(Contd. of pag
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
Cyclohexanone 99.8%	ACTIV
Tetrahydrofuran	ACTIV
Hazardous Air Pollutants	
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
CAS: 109-99-9 Tetrahydrofuran	
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:	
1 2	

· EPA (Environmental Protection Agency)

CAS: 109-99-9 Tetrahydrofuran

· TLV (Threshold Limit Value)

All components have the value 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* 



· Signal word Danger

Hazard-determining components of labeling: Cyclohexanone 99.8% Tetrahydrofuran
Hazard statements Highly flammable liquid and vapor. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause respiratory irritation.
Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. SC

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#### Trade name: Cyclohexanone / Tetrahydrofuran 50/50 v/v

(Contd. of page 10)	
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.	
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.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
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.

· Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 05/15/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 08-08-2016: Creation date for SDS. 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

· Department issuing SDS: Environment protection department.

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Printing date 05/15/2024

Reviewed on 05/15/2024

#### Trade name: Cyclohexanone / Tetrahydrofuran 50/50 v/v

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US

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 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 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 • \* Data compared to the previous version altered.