Scientific Laboratory Supplies - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2

Revision date: Date printed: 16 April 2021 16 September 2024

CHE1742

Section 1. Identification

1.1	Product Identifier	CHE1742
	Product Name	CYCLOHEXANONE pure 500ml.
	CAS Number REACH Registration No	108-94-1 01-2119453616-35-XXXX
	Molecular Formula	CH ₂ (CH ₂) ₄ CO =98.14

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

Scientific Laboratory Supplies



Unit 6, Foresters Avenue Fairham Business Park Fairham Nottingham NG11 2AF UNITED KINGDOM

(Have this document to hand)

	Phone	0115 9821111	
	Fax	0115 9825275	
	Email	sales@scientific-l	abs.com
1.4	Emergency Telephone	(08:00-17:00)	0115 9821111
1.4	Emergency relephone	· · · ·	0113 9621111
		(24hr)	112

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 3 Acute toxicity, category 4 (oral) Skin corrosion/irritation, category 2 Acute toxicity, category 4 (dermal) Acute toxicity, category 4 (inhalation) Serious eye damage/irritation, category 1

H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H312: Harmful in contact with skin.
H332: Harmful if inhaled.
H318: Causes serious eye damage.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Hazard Pictograms

Danger



Scientific Laboratory Supplies - Safety Data Sheet

Ref: CHE1742

Flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye damage.

Precautionary Statements

Store in a well ventilated place. Keep container tightly closed. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water.

Section 3. Composition

3.1 Substances

Component C.	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Cyclohexanone 10	08-94-1	203-631-1	01-2119453616-35-XXXX	>99.8%	Flam. Liq. 3,Acute Tox. 4 (O),Skin Irrit. 2,Acute Tox. 4 (D),Acute Tox. 4 (I),Eye Dam. 1

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media	Alcohol resistant foam, dry powder, carbon dioxide or vaporising liquid. Use water spray to keep fire exposed containers cool.
Unsuitable Media	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards Vapour-air mixtures are explosive.

5.3 Advice for firefighters

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is heavier than air and will tend to accumulate at low spots.

Personal Protection

Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration		Workplace Exposu	re Limits	
			Long Term (8hr	TWA)	Short Term 15min	n period)
Cyclohexanone	108-94-1	>99.8%	10.0 ppm	40.8 mg/m-3	20.0 ppm	81.6 mg/m-3

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.
Hand Protection	Use solvent resistant gloves.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Α	ppearance	Clear colourless liquid.	
0	dour	Pungent.	
pl	Н	Not applicable	
В	oiling Point	156°C	
Μ	lelting Point	-16.4°C	
F	lash Point	43°C (Closed cup)	
U	pper Flammable Limit	9.4%	
L	ower Flammable Limit	1.1%	
Α	uto Ignition	430°C	
E	xplosive Properties	Severe in confined spaces.	
0	xidising Properties	No.	
V	apour Pressure	4mmHg @ 20°C	

Scientific Laboratory Supplies - Safety Data Sheet

Ref: CHE1742

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
10.5	Incompatable Materials	Strong oxidising agents.
10.6	Hazardous Decomposition Products	None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Both the vapour and liquid may, produce conjunctival irritation and corneal damage.
Skin	Unlikely to be an irritant on brief or occasional exposure. Repeated or prolonged contact may defat the skin producing irritation and dermatitis.
LD50 Skin	1100mg/kg Rabbit
Ingestion	Harmful if swallowed. Ingestion may cause cause narcosis, anaesthesia and fatigue.
LD50 Oral	1620mg/kg Rat
Inhalation	Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes and respiratory tract. High concentrations of vapour may produce central nervous system depression and unconsciousness.
LD50 Inhalation	6.2mg/l Rat (4 hours)
TCLo	Not available
Carcinogenicity	Chronic studies in rats produced benign tumours although exposure in humans can be, at worst, only suggestive of weak carcinogenic potential.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	Not teratogenic but high doses have caused maternal and foetal toxicity.

Section 12. Ecological

12.1	Toxicity	By careful addition to adapted biological effluent treatment plants, no adverse effects on the degradative activity of the activated sludge is expected. Does not bioaccumulate. Practically non toxic to: fish LC50->100mg/l, daphnia EC50 >100mg/l.
	LC50 Algal	32.9mg/l Green algae (72 hours)
	LC50 Crustacea	800mg/l Daphnia magna (24 hours)
	LC50 Fish	527 - 732mg/l Fathead Minnow (96 hours)
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods Disposal Methods

Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging

aging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

Section 14. Transport Information

14.1	UN Number	1915
14.2	Proper Shipping Name	Cyclohexanone
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	3 None 3 30 D/E
14.4	Packing Group	III
14.5	Environment hazards	See section 12.
14.6	Special precautions for user	No special precautions required.
14.7	Transport in bulk	Not transported in bulk.

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Danger

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Flammable liquid, category 3; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Acute toxicity,
	category 4 (dermal); Acute toxicity, category 4 (inhalation); Serious eye damage/irritation, category 1

Signal word

Hazard Pictograms



Hazard Statements	H226, H302, H312, H332, H315, H318 Flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye damage.
Precautionary Statements	P403+P233, P210, P280, P305+P351+P338, P304+P340, P302+P352 Store in a well ventilated place. Keep container tightly closed. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.2 (Supercedes revision 1.1)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 16 September 2024

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