


1. Identification

Product Code **1110829**

Product Name **CYCLOHEXANONE pure**

Molecular Formula **CH₂(CH₂)₄CO =98.14**

CAS Number **108-94-1**

Supplier: **CAMLAB LIMITED**

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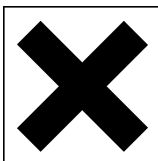
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(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Cyclohexanone	108-94-1	203-631-1	> 99.8%	Xn : R10,R20,R51/53,	WEL

3. Hazards Identification



Flammable. Harmful by inhalation. Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

4. 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.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. Vapour-air mixtures are explosive.

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.

6. Accidental Release Measures

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

7. Storage & Handling

Handling Precautions	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.
Storage Conditions	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.

8.1 Workplace Exposure Limits

Workplace Exposure Limits	Long Term (8hr TWA):	10.00 ppm	-	mg m-3
	Short Term (15min Period):	20.00 ppm	-	mg m-3

8.2 Personal Protection

Respiratory	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.
Hands	Use solvent resistant gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	Clear colourless liquid.
Odour	Pungent.
pH	Not available
Boiling point	156.0 °C
Melting point	16.4- °C
Flash point	43.0 °C(Closed cup)
Upper Flammable Limit	9.4 %
Lower Flammable Limit	1.3 %
Auto Ignition	430.0 °C
Explosive properties	Severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	4.0 mmHg @ 20,C
Relative Density	0.9478
Water Solubility	10%

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
Materials to Avoid	Strong oxidising agents.

10. Stability & Reactivity (continued)

Hazardous None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.
Decomposition Products

11. Toxicological Information

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 Rabbit 1000 mg/Kg

Ingest Ingestion may cause cause narcosis, anaesthesia and fatigue.

LD50 Ingest Oral Rat 1620 mg/Kg

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.

Carcinogenicity Chronic studies in rats produced benign tumours although exposure in humans can be, at worst, only suggestive of weak carcinogenic potential.

Mutagenicity May be a mutagen.

Reproductive Effects Not teratogenic but high doses have caused maternal and foetal toxicity.

12. Ecological

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.

13. Disposal Considerations

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

14. Transport Information

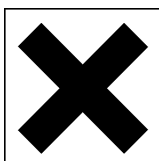
Proper Shipping Name Cyclohexanone
UN Number 1915
UN Classification 3 Flammable liquid
Subsidiary Risk None
Flash Point 43.0 °C(Closed cup)
Packing Group III
Transport Category 3
Marine pollutant No
ADR Hazard ID 30



15. Regulatory Information

Labelling Harmful.
Classification

Label Symbols Xn



Risk & safety Phrases Flammable. Harmful by inhalation. Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

15. Regulatory Information (continued)ment.)

EEC Number

203-631-1

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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