

Printing date 24.06.2009 Revision: 24.06.2009

1 Identification of the substance/preparation and of the company/undertaking

· Product details

· Trade name: cyclohexanone

· Manufacturer/Supplier:

Petrochem Middle East FZE

PO Box 17028, Jebel Ali Free Zone

Dubai, UAE

Ph +971 4 8839222; Fax +971 4 8834133

- · Further information obtainable from: Product safety department.
- · Information in case of Emergency Product safety department.

2 Composition/information on ingredients

- · Chemical characterization:
- · CAS No. Description

108-94-1 cyclohexanone

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

3 Hazards identification

· Hazard description:



Xn Harmful

· Information concerning particular hazards for human and environment:

R 10 Flammable.

R 20 Harmful by inhalation.

4 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.
- · After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

(Contd. on page 2)



Printing date 24.06.2009 Revision: 24.06.2009

Trade name: cyclohexanone

· Protective equipment: Mouth respiratory protective device.

(Contd. of page 1)

6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting:

Dilute with plenty of water.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

- · Handling:
- · Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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 container tightly sealed.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit v	alues that require n	monitoring at the workplace:	
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- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 3)



Printing date 24.06.2009 Revision: 24.06.2009

Trade name: cyclohexanone

(Contd. of page 2)

· 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

9 Physical and chemical properties

· General Information	
Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	
· Flash point:	43°C
· Ignition temperature:	420°C
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.3 Vol %
Upper:	9.4 Vol %
· Vapour pressure at 20°C:	5 hPa
· Density at 20°C:	0.95 g/cm³
· Solubility in / Miscibility with water at 20°C:	80 g/l

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known.
- · Dangerous decomposition products: No dangerous decomposition products known.

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Printing date 24.06.2009 Revision: 24.06.2009

Trade name: cyclohexanone

(Contd. of page 3)

11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values relevant for classification:

Oral	<i>LD50</i>	1535 mg/kg (rat)
Dermal	<i>LD50</i>	948 mg/kg (rabbit)
Inhalative	LC50/4 h	8000 mg/l (rat)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

12 Ecological information

· General notes:

Water hazard class 1 (German Regulation) (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.

13 Disposal considerations

- · Product:
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· Land transport ADR/RID (cross-border)



· ADR/RID class: 3 Flammable liquids.

Danger code (Kemler): 30
UN-Number: 1915
Packaging group: III
Hazard label: 3

· Description of goods: 1915 CYCLOHEXANONE

· Maritime transport IMDG:



· IMDG Class: 3
 · UN Number: 1915
 · Label 3

(Contd. on page 5)



Printing date 24.06.2009 Revision: 24.06.2009

Trade name: cyclohexanone

(Contd. of page 4)

· Packaging group: III

• EMS Number: F-E,S-D • Marine pollutant: No

· Proper shipping name: CYCLOHEXANONE

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 3 · UN/ID Number: 1915 · Label 3 · Packaging group: III

· Proper shipping name: CYCLOHEXANONE

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:



Xn Harmful

- · Risk phrases:
- 10 Flammable.
- 20 Harmful by inhalation.
- · Safety phrases:
- 2 Keep out of the reach of children.
- 25 Avoid contact with eyes.

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 MSDS: Product safety department
- · Contact: Mr. Menon

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