

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

- **Product details**
- **Trade name:** cyclohexanone
- **Trader/Supplier:** Sahastraa exports Pvt Ltd  
*Address : Navkar plaza 6th floor, Bajaj road, vile Parle west , Mumbai- 400056*

## 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*

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- **Protective equipment:** Mouth respiratory protective device.

## 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 values that require monitoring at the workplace:**

### 108-94-1 cyclohexanone

PEL (USA)	200 mg/m <sup>3</sup> , 50 ppm
REL (USA)	100 mg/m <sup>3</sup> , 25 ppm
	Skin
TLV (USA)	50 mg/m <sup>3</sup> , 20 ppm
	Skin
IOELV (EU)	Short-term value: 81.6 mg/m <sup>3</sup> , 20 ppm
	Long-term value: 40.8 mg/m <sup>3</sup> , 10 ppm
	Skin
WEL (Great Britain)	Short-term value: 20 ppm
	Long-term value: 10 ppm
	Sk

- **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.

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· **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**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic

· **Change in condition**

<b>Melting point/Melting range:</b>	ca. - 26°C
<b>Boiling point/Boiling range:</b>	153 - 156°C

· **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:**

<b>Lower:</b>	1.3 Vol %
<b>Upper:</b>	9.4 Vol %

· **Vapour pressure at 20°C:** 5 hPa

· **Density at 20°C:** 0.95 g/cm<sup>3</sup>

· **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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## 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

Oral	LD50	1535 mg/kg (rat)
Dermal	LD50	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

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- **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.

END OF MSDS