

Material Safety Data Sheet Cyclohexanone MSDS

- **1.Composition/Information on ingredients.** Chemical characterization:
- · CAS No. Description
- 108-94-1 cyclohexanone
- Identification number(s)
- EINECS Number: 203-631-1
- EU Number: 606-010-00-7

2.Hazards Identification. • Hazard description:



Xn Harmful • Information concerning particular hazards for human and environment: R 10 Flammable. R 20 Harmful by inhalation.

3. 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.

4. 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

• *Protective equipment:* Mouth respiratory protective device.

5. Accident 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.
- \cdot Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

- 6. Handling & 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.

7. Exposure Control/Personal Protection

108-94-1 cyclohexanone	
	200 mg/m ³ , 50 ppm
<i>REL</i> (<i>USA</i>)	100 mg/m ³ , 25 ppm
	Skin
<i>TLV</i> (<i>USA</i>)	50 mg/m³, 20 ppm
	Skin
<i>TLV</i> (<i>EU</i>)	Short-term value: 81.6 mg/m³, 20 ppm
	Long-term value: 40.8 mg/m³, 10 ppm
	Skin
WEL (Great Britain)	Short-term value: 20 ppm
	Long-term value: 10 ppm
· Additional information: The	lists valid during the making were used as basis.
· Personal protective equipment	ıt:
· General protective and hygier	nic measures:
Keep away from foodstuffs, bev	
Wash hands before breaks and	
· Respiratory protection:	
1 11	pollution use respiratory filter device. In case of intensive or longer exposure
use	
self-contained respiratory prote	ective device.
· Protection of hands:	
U	permeable and resistant to the product/ the substance/ the preparation.
0	nendation 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	on consideration of the percentation times, rates of all fusion and the degradation
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Tightly sealed goggles

8. Physical	and	Chemical	Properties.
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· General Information

Form: Fluid

Colour: Colourless

Odour: Characteristic

· Change in condition

Melting point/Melting range: ca. - 26°C

Boiling point/Boiling range: 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:

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

9. 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.

10. <i>Toxi</i>	logical	Inform	ation.
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· Acute toxicity:

· LD/LC50 values relevant for classification:

Oral----- LD50------ 1535 mg/kg (rat)

Dermal----- LD50----- 948 mg/kg (rabbit)

Inhalative -----8000 mg/l (rat)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

11. 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.

12.Disposal Consideration.

· Product:

· Recommendation

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

· Uncleaned packaging: