



**SAFETY DATA SHEET**  
CYCLOHEXANONE

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Issued: 22/03/2004  
Revision No: 1

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product name:** CYCLOHEXANONE  
**CAS number:** 108-94-1  
**EINECS number:** 203-631-1  
**Index number:** 606-010-00-7  
**Synonyms:** KETOHEXAMETHYLENE

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous ingredients:** CYCLOHEXANONE >90%

**3. HAZARDS IDENTIFICATION**

**Main hazards:** Flammable. Harmful by inhalation.

**4. FIRST AID MEASURES (SYMPTOMS)**

**Skin contact:** There may be irritation and redness at the site of contact.  
**Eye contact:** There may be irritation and redness. The eyes may water profusely.  
**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.  
**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**4. FIRST AID MEASURES (ACTION)**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.  
**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.  
**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.  
**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

[cont...]

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**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**Exposure hazards:** In combustion emits toxic fumes.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**7. HANDLING AND STORAGE**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Occupational exposure limits**

**TWA (8 hr exposure limit):** 10 ppm (OES)

**STEL (15 min exposure limit):** 20 ppm (OES)

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Colourless

**Odour:** Characteristic odour

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Miscible

**Boiling point/range°C:** 153-156

**Melting point/range°C:** -26

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CYCLOHEXANONE**Flammability limits %: lower:** 1.3vol %**Flash point°C:** 43**Autoflammability°C:** 420**Relative density:** 0.95**10. STABILITY AND REACTIVITY****Stability:** Stable under normal conditions.**Conditions to avoid:** Heat.**Materials to avoid:** Strong oxidising agents. Strong acids.**Haz. decomp. products:** In combustion emits toxic fumes.**11. TOXICOLOGICAL INFORMATION****Acute toxicity:** CYCLOHEXANONE

ORL MUS LD50 1400 mg/kg

ORL RAT LD50 1620 µl/kg

SCU RAT LD50 2170 mg/kg

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.**12. ECOLOGICAL INFORMATION****Mobility:** Readily absorbed into soil.**Persistence and degradability:** Biodegradable.**Bioaccumulative potential:** No bioaccumulation potential.**Other adverse effects:** Negligible ecotoxicity.**13. DISPOSAL CONSIDERATIONS****Disposal of packaging:** Arrange for collection by specialised disposal company.**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**14. TRANSPORT INFORMATION****ADR / RID****UN no:** 1915**ADR Class:** 3**Packing group:** III**Classification code:** F1**Shipping name:** CYCLOHEXANONE**Labelling:** 3**Hazard ID no:** 30

**SAFETY DATA SHEET**  
CYCLOHEXANONE**IMDG / IMO**

<b>UN no:</b> 1915	<b>Class:</b> 3
<b>Packing group:</b> III	<b>EmS:</b> F-E,S-D
<b>Marine pollutant:</b> NO	<b>Labelling:</b> 3

**IATA / ICAO**

<b>UN no:</b> 1915	<b>Class:</b> 3
<b>Packing group:</b> III	<b>Packing instructions:</b> 309(P&CA); 310(CAO)
<b>Labelling:</b> 3	

**15. REGULATORY INFORMATION****Hazard symbols:** Harmful.**Risk phrases:** R10: Flammable.  
R20: Harmful by inhalation.**Safety phrases:** S2: Keep out of the reach of children.  
S23: Do not breathe vapour.  
S25: Avoid contact with eyes.  
S29/35: Do not empty into drains; dispose of this material and its container in a safe way.  
S60: This material and its container must be disposed of as hazardous waste.**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.**16. OTHER INFORMATION****Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.