



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : C 15129  
Product Name : Cyclohexane

#### Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : Hexahydrobenzene, hexamethylene, naphthene.  
CAS-No : 110-82-7  
Ec-Index No. : 601-017-00-1  
EC-No. : 203-806-2  
Molecular Formula : C<sub>6</sub> H<sub>12</sub>

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3. HAZARDS IDENTIFICATION : Highly flammable.

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### 4. FIRST AID MEASURES

After inhalation : fresh air. If necessary apply mouth to mouth  
resuscitation or mechanical ventilation.

After skin contact: wash off with plenty of water .Remove  
contaminated clothing

After eye contact: rinse out with plenty of water if pain persists  
consult an eye specialist



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After swallowing: Avoid vomiting, Keep airways free. Summon doctor.  
Laxative: Paraffin.

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### 5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : foam, powder, CO<sub>2</sub>

Special risks : Combustible. Vapours heavier than air. Formation of explosible mixtures possible with air. Keep away from sources of ignition.

Other information: Take measures to prevent electrostatic charging.

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### 6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning / absorption :

Take up with liquid absorbent material. Forward for disposal.

Clean up affected area.

Person – related precautionary measures :

Do not inhale vapours/ aerosols. Avoid substance contact.

Environmental protection measures: Do not allow to enter sewage system.

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### 7. HANDLING AND STORAGE

Handling : Take measures to prevent electrostatic charging.

Storage : Tightly closed Dry .In a well ventilated place. At +15 °C to +25 °C.

Keep away from sources of ignition and heat.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Personal protective equipment

Respiratory protection : required when vapours/ aerosols are generated

Eye protection : required

Hand protection : required

Protective clothing should be selected for the working place depending on concentration and quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier

Industrial hygiene : Change contaminated clothing .

Application of skin protective barrier cream recommended .

Wash hands after working with substance .

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid  
Colour : colourless  
Odour : characteristic  
PH value : not available  
At 10 g/l H<sub>2</sub>O (20<sup>0</sup> C )  
Melting temperature : 6.4<sup>0</sup> C  
Boiling temperature : 80.8<sup>0</sup> C  
Ignition temperature : 260<sup>0</sup> C  
Flash point : ~20<sup>0</sup> C  
Explosion limits lower : 1.2 vol%  
Upper : 8.3 vol%  
Density (20<sup>0</sup> C ) : 0.78 g/cm<sup>3</sup>  
Solubility in water ( 20<sup>0</sup>C ) : 55mg/l

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### 10. STABILITY AND REACTIVITY

Conditions to be avoided : heating.

Substance to be avoided : strong oxidising agent, nitrogen oxides.

Stabilizer: ethanol.

Hazardous decomposition products : no information available.

Further information: highly inflammable;

Unsuitable working materials: rubber, various plastics.

Explosible with air in a vaporous/ gaseous state.

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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD<sub>50</sub> (oral, rat): 12705 mg/Kg

Subacute to chronic toxicity: Checks into the substance have so far not disclosed any investigations concerning possible teratogenic effects.

Further toxicological information

After inhalation of vapours: coughing, drowsiness, dizziness, nausea, vomiting. In high concentrations: respiratory paralysis, unconsciousness, collapse. Inhalation may lead to the formation of oedemas in the respiratory tract.

After skin contact: severe irritations .

After swallowing: gastric pain, gastrointestinal complaints, respiratory paralysis, unconsciousness, collapse. Risk of aspiration upon vomiting.

Further data: The product should be handled with the care usual when dealing with chemicals.

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## 12. ECOLOGICAL INFORMATION

Behaviour in environmental compartments:

High bio accumulation potential.

Ecotoxic effects: Biologic effects:

Toxic for aquatic organisms . Endangers drinking water supplies if allowed to enter soil and or waters in large quantities.

Change in the flavour of fish protein.

Fish toxicity: L.idus LC<sub>50</sub> : 55mg/l;C.auratus LC<sub>50</sub> : 10mg/l/24h

Aquatic organisms LC<sub>50</sub> : 10mg/l/96h

Crustaceans: Daphnia magna LC<sub>50</sub> : 340mg/l

Bacteria:Ps.putida EC<sub>0</sub>: <400mg/l

Protozoa : E.sulcatum EC<sub>0</sub> : <50mg/l

Further ecologic data:

ThOD: 3.42g/g

Risk of formation of explosive vapours above water surface.

No ecological problem are to be expected when the product is handled and used with due care and attention.

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## 13. DISPOSAL METHOD

**Product** : There are no uniform EC regulations for The disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations . We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

**Packaging** : Disposal in compliance with official Regulations . Handle contaminated packaging as In the same way as the substance itself . If not officially specified differently , non – contaminated packaging may be treated like household waste or recycled.

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### 14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class: 3                      Number and letter: 15c

ADR/RID class : 3                      Number and letter: 15c

Name of material : CYCLOHEXANE

River transport AND/ADNR: Not examined

Sea transport IMDG : IMDG class: 3.1      UN –No.: 1145      Packaging group: II

Ems : 3-07                      MFAG: 310

Correct technical name: CYCLOHEXANE

Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class: 3              UN/ID-No.: 1145      Packaging group:

II

Correct technical name: CYCLOHEXANE

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### 15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : F                      Highly flammable

R- Phrases : 11                      Highly flammable

S-phrases : 9-16-33                      Keep container in a well ventilated place. Keep  
away from

sources of ignition. No smoking .Take precautionary  
measures against static discharges.

Water pollution class : 1      ( slightly polluting substance)

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### 16. OTHER INFORMATION

#### Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions . It does not represent a guarantee of the properties of the product.

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