# International Chemical Safety Cards

## CYCLOPENTANE

**ICSC: 0353**

**CAS # 287-92-3**  
**RTECS # GY2390000**  
**ICSC # 0353**  
**UN # 1146**  
**EC # 601-030-00-2**

### TYPES OF HAZARD/EXPOSURE

<table>
<thead>
<tr>
<th></th>
<th>ACUTE HAZARDS/SYMPTOMS</th>
<th>PREVENTION</th>
<th>FIRST AID/FIRE FIGHTING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRE</strong></td>
<td>Highly flammable.</td>
<td>NO open flames, NO sparks, and NO smoking.</td>
<td>Powder, AFFF, foam, carbon dioxide.</td>
</tr>
<tr>
<td><strong>EXPLOSION</strong></td>
<td>Vapour/air mixtures are explosive.</td>
<td>Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding). Do NOT use compressed air for filling, discharging, or handling. Use non-sparking handtools.</td>
<td>In case of fire: keep drums, etc., cool by spraying with water.</td>
</tr>
</tbody>
</table>

### EXPOSURE

- **INHALATION**  
  - Ventilation, local exhaust, or breathing protection.  
  - Fresh air, rest. Refer for medical attention.

- **SKIN**  
  - Redness.  
  - Protective gloves.  
  - Remove contaminated clothes. Rinse and then wash skin with water and soap.

- **EYES**  
  - Redness.  
  - Safety goggles or face shield.  
  - First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

- **INGESTION**  
  - Do not eat, drink, or smoke during work.  
  - Rinse mouth. Give a slurry of activated charcoal in water to drink. Do NOT induce vomiting. Refer for medical attention.

### SPILLAGE DISPOSAL

### STORAGE

### PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer (extra personal protection: self-contained breathing apparatus).

F symbol
R: 11
S: (2-9-16-29-33
UN Hazard Class: 3
UN Packing Group: II

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0353

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities © IPCS CEC 1993

International Chemical Safety Cards

CYCLOPENTANNE

ICSC: 0353

PHYSICAL STATE; APPEARANCE:
COLOURLESS LIQUID.

PHYSICAL DANGERS:
The vapour is heavier than air and may travel along the ground; distant ignition possible. As a result of flow, agitation, etc., electrostatic charges can be generated.

INHALATION RISK:
A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.

CHEMICAL DANGERS:

OCCUPATIONAL EXPOSURE LIMITS (OELs):
TLV: 600 ppm; 1720 mg/m³ (as TWA) (ACGIH 1993-1994).

EFFECTS OF SHORT-TERM EXPOSURE:
The substance and the vapour in high concentrations irritates the eyes and the respiratory tract. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Exposure far above the OEL may result in unconsciousness.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:
Repeated or prolonged contact with skin may cause dermatitis.

PHYSICAL PROPERTIES
Boiling point: 49°C
Melting point: -94°C
Relative density (water = 1): 0.8
Solubility in water: none

Relative density of the vapour/air-mixture at 20°C (air = 1): 1.6
Flash point: -37°C c.c.
Auto-ignition temperature: 361°C
Vapour pressure, kPa at 20°C: 45  
Relative vapour density (air = 1): 2.4  
Explosive limits, vol% in air: 1.1-8.7  
Octanol/water partition coefficient as log Pow: 3.0

ENVIRONMENTAL DATA

NOTES

Transport Emergency Card: TEC (R)-532  
NFPA Code: H 1; F 3; R 0;

ADDITIONAL INFORMATION

ICSC: 0353

© IPCS, CEC, 1993

CYCLOPENTANE

IMPORTANT LEGAL NOTICE: Neither the CEC or the IPCS nor any person acting on behalf of the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use.