Material Safety Data Sheet

City University of Hong Kong

MSDS CYCLOHEXENE 0122

PRODUCT INFORMATION

Product Name: Cyclohexene
Chinese Name: 環己烯
Common Synonyms: Benzene Tetrahydride; 1,2,3,4-Tetrahydrobenzene
Chemical Family: Aliphatic Hydrocarbons
Formula: CH\_2\_CH\_CH\_CH\_CH\_CH\_2
Formula Wt.: 82.15
CAS No.: 110-83-8
Product Use: Laboratory Reagent

RISK SYMBOL

PHYSICAL DATA
Physical State: Liquid
Boiling Point: 83 deg. C (181 deg. F)  (20 deg. C)
Melting Point: -104 deg. C (-155 deg. F)
Specific Gravity: 0.81
Solubility(H₂O): Negligible (<0.1%)
pH: N/A
Odor Threshold (ppm): N/A
Coefficient Water/Oil Distribution: N/A
Appearance & Odor: Colorless liquid. Sweet odor.

FIRE AND EXPLOSION DATA

Flash Point (Closed Cup): -12 deg. C (10 deg. F)
Autoignition Temperature: 243 deg. C (471 deg. F)
Flammable Limits:   Upper -  5.0  %    Lower -  1.0  %
Fire Extinguishing Media:
Use alcohol foam, dry chemical or carbon dioxide. (water may be ineffective.)

Special Fire-Fighting Procedures:
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

Unusual Fire & Explosion Hazards:
Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire.

Toxic Gases Produced: None identified

REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions To Avoid: Heat, flame, other sources of ignition
Incompatibles: Strong oxidizing agents
Decomposition Products: None identified

The above information is believed to be accurate to the best of our knowledge.
No responsibilities or liabilities are assumed or implied by CITY U for their inaccuracies.
HEALTH HAZARD DATA

Inhalation: Nausea, vomiting, headache, unconsciousness, may cause narcosis
Skin Contact:  Irritation
Eye Contact:  Irritation
Skin Absorption: None identified
Ingestion:  None identified
Chronic Effects: None identified
Threshold Limit Value (TLV/TWA):  1015 mg/m³ (300 ppm)
Short-Term Exposure Limit (STEL): Not established
Permissible Exposure Limit (PEL):  1015 mg/m³ (300 ppm)
Toxicity Of Components:
No information is available
Carcinogenicity:  NTP: No  IARC: No  Z LIST: No  OSHA REG: No
Carcinogenicity: None identified.
Reproductive Effects: None identified.
Target Organs: Skin, Eyes, Respiratory System
Medical Conditions Generally Aggravated By Exposure: None identified
Primary Routes Of Entry: Inhalation, ingestion, eye contact, skin contact

FIRST AID MEASURES

Ingestion:  Call a physician.
Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Skin Contact:
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.
Eye Contact: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.
PREVENTATIVE MEASURES

Ventilation: Use general or local exhaust ventilation to meet TLV requirements.

Respiratory Protection:
Respiratory protection required if airborne concentration exceeds TLV. At concentrations up to 1000 ppm, a chemical cartridge respirator with organic vapor cartridge is recommended. Above this level, a self-contained breathing apparatus is recommended.

Eye/Skin Protection:
Safety goggles and face shield, uniform, protective suit, rubber gloves are recommended.

Storage Requirements:
Keep container tightly closed. Store in a cool, dry, well-ventilated, flammable liquid storage area.

Special Precautions: Bond and ground containers when transferring liquid.

ENVIRONMENTAL PROTECTION DATA

Steps To Be Taken In The Event Of A Spill Or Discharge:
Wear self-contained breathing apparatus and full protective clothing. Shut off ignition sources; no flares, smoking or flames in area. Stop leak if you can do so without risk. Use water spray to reduce vapors. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush area with water.