# Material Safety Data Sheet

## Chemistry beyond chemicals



## SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Cyclohexane 99.7% for HPLC & Spectroscopy

 Cat No.
 HP0076

 CAS-No.
 110-82-7

 M.W.
 84.16

 EC-No.
 203-806-2

Company High Purity Laboratory Chemicals Pvt. Ltd.

Address Plot No. 1902, Fansa Road, G.I.D.C., Sarigam - 396 155, DIST. Valsad, Gujarat (INDIA)

Email customercare@hplcindia.com

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 110-82-7
Percent 99.7%
Substance/Mixture Substance

Synonym -

Chemical Formula  $CH_2$ .  $(CH_2)_4$ .  $CH_2$ 

#### SECTION 3: HAZARDS IDENTIFICATION

#### **GHS CLASSIFICATION**

Flammable liquid

Skin irritation

Specific target organ toxicity - single exposure

Aspiration hazard

Acute aquatic toxicity

Chronic aquatic toxicity

Category 1

Category 1

Category 1

Category 1

Category 1

#### **GHS LABEL ELEMENTS**









# Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 Keep container tightly closed. P273 Avoid release to the environment.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

P331 Do NOT induce vomiting.

## SECTION 4: FIRST AID MEASURES

**Inhalation** If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

**Skin contact** Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

**Eye contact** Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

**Ingestion** Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

M/S. HIGH PURITY LABORATORY CHEMICALS PVT. LTD. (Manufacturer's of Laboratory Fine Chemicals & Reagents) CORP. OFFICE: 312, GOLD MOHUR BLDG.,174, SHAMALDAS GANDHI MARG, MUMBAI- 400 002 (INDIA) TEL: +91 22 2203 5835/ 2205 7323/ 6637 9367 • FAX: + 91 22 2200 4934 EMAIL: customercare@hplcindia.com; sales@hplcindia.com

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## SECTION 5: FIREFIGHTING MEASURES

**Extinguishing media** Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards** no data available

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information no data available

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions**Use personal protective equipment (self-contained breathing apparatus). Avoid breathing

vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Remove all sources of ignition.

**Environmental precautions** Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

containment and cleaning up closed containers for disposal.

### SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

**Eye/face protection** Face shield and safety glasses, if required.

**Hand protection** Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

**Skin and Body Protection** Impervious protective clothing and boots, if required.

**Respiratory protection** Use half or full-face respirator with multi-purpose combination. If the respirator is the sole

means of protection, use a full-face supplied air respirator. Use respirators and components

tested and approved under appropriate government standards.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear colorless liquid.

Odour Sweet

Odour Threshold no data available

oH no data available Melting/freezing point 6-7° C

Melting/freezing point 6-7° C
Boiling point/range 80-81° C
Flash point -18 ° C

Evapouration rate no data available Vapour pressure 124 hPa at 24 °C Vapour density no data available Relative density 0.777-0.779 g

Water solubility 0.05 g/l at 20 °C LogPow 3.44

Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidizing properties

3.44
no data available
no data available
no data available
no data available

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity** Vapours may form explosive mixture with air.

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**Stability** The product is chemically stable under standard ambient conditions (room temperature).

Incompatibilities rubber, various plastics
Hazardous decomposition no data available

products

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Conditions to avoid Warming.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity Acute oral toxicity: LD50 Rat: > 5,000 mg/kg

Acute inhalation toxicity: LC50 Rat: > 33.88 mg/l; 4 h Acute dermal toxicity: LD50 Rabbit: > 2,000 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/irritation Rabbit Result: No eye irritation

Respiratory/skin sensitization Buehler Test Guinea pig Result: Does not cause skin sensitisation.

Germ cell mutagenicity Genotoxicity in vivo: Chromosome aberration test Rat male and female inhalation (vapour)

Bone marrow Result: negative

Genotoxicity in vitro: Ames test Salmonella typhimurium Result: negative

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity no data available

Specific target organ toxicity Single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard Aspiration may cause pulmonary oedema and pneumonitis.

RTECS Not available

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity** 

Toxicity to fish: flow-through test LC50 Pimephales promelas: 4.53 mg/l; 96 h

Toxicity to daphnia and

other aquatic invertebrates: static test EC50 Daphnia magna (Water flea): 0.9 mg/l; 48 h

Persistence/degradation Biodegradability 77 %; 28 d; Readily biodegradable

**Environmental** no data available

### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

#### SECTION 14: TRANSPORT INFORMATION

UN number 1145

Proper shipping name CYCLOHEXANE

Hazard class 3
Packaging group II
Marine pollutant Yes

## SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

## SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.