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# Cyclopentane CAS No 287-92-3

# **MATERIAL SAFETY DATA SHEET** SDS/MSDS

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	<b>Product identifiers</b> Product name	:	Cyclopentane
	CAS-No.	:	287-92-3
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	1.3 Details of the supplier of the safety data sheet		
	Company		Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002

		INDIA
Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com

#### 1.4 **Emergency telephone number**

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2), H225 Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008 Pictogram

Signal word Danger Ban Hazard statement(s) H225 Highly flammable liquid and vapour. Harmful to aquatic life with long lasting effects. H412 Precautionary statement(s) P210

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P273	Avoid release to the environment.
Supplemental Hazard Statements	none

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Formula	:	C5H10
Molecular weight	:	70.13 g/mol
CAS-No.	:	287-92-3
EC-No.	:	206-016-6
Index-No.	:	601-030-00-2

Hazardous ingredients according to Regulation (EC) No 1272/2008				
Component		Classification	Concentration	
Cyclopentane				
CAS-No.	287-92-3	Flam. Liq. 2; Aquatic Chronic	<= 100 %	
EC-No.	206-016-6	3; H225, H412		
Index-No.	601-030-00-2			

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- **5.2 Special hazards arising from the substance or mixture** Carbon oxides
- 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

#### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8

For personal protection see section 8.

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

# 6.4 **Reference to other sections**

For disposal see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 **Precautions for safe handling**

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable Liquids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### 8.2 Exposure controls

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal protective equipment**

#### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# **Body Protection**

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: -94 °C - lit.
f)	Initial boiling point and lit. boiling range	49-52 °C -
g)	Flash point	-20 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 8.7 %(V) Lower explosion limit: 1.1 %(V)
k)	Vapour pressure	948.7 mmHg at 55 °C 275.0 mmHg at 20 °C
I)	Vapour density	2.42 - (Air = 1.0)
m)	Relative density	0.740-745 g/cm3 at 20 °C
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

# 9.2 Other safety information

Relative vapour density 2.42 - (Air = 1.0)

## **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No data available

### **10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** No data available

#### **10.4 Conditions to avoid** Heat, flames and sparks. Extremes of temperature and direct sunlight.

#### **10.5 Incompatible materials** Strong oxidizing agents

### **10.6 Hazardous decomposition products** Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute toxicity No data availableCyclopentane

**Skin corrosion/irritation** No data available(Cyclopentane)

Serious eye damage/eye irritation No data available(Cyclopentane)

**Respiratory or skin sensitisation** No data available(Cyclopentane)

#### Germ cell mutagenicity

No data available(Cyclopentane)

#### 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(Cyclopentane)

Specific target organ toxicity - single exposure

No data available(Cyclopentane)

#### Specific target organ toxicity - repeated exposure No data available

#### Aspiration hazard

No data available(Cyclopentane)

#### **Additional Information**

RTECS: GY2390000

Central nervous system depression, Skin irritation, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Cyclopentane)

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 10.52 mg/l - 48 h(Cyclopentane) other aquatic invertebrates

# 12.2 Persistence and degradability

No data available

- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available(Cyclopentane)

# 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

Harmful to aquatic life.

# **SECTION 13: Disposal considerations**

# **13.1 Waste treatment methods**

### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

# **Contaminated packaging**

Dispose of as unused product.

#### **SECTION 14: Transport information**

14.1	<b>UN number</b> ADR/RID: 1146	IMDG: 1146	IATA: 1146
14.2	UN proper shipping nameADR/RID:CYCLOPENTIMDG:CYCLOPENTIATA:Cyclopentane	ANE ANE	
14.3	Transport hazard class(es ADR/RID: 3	s) IMDG: 3	IATA: 3
14.4	Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for u No data available	ser	

#### **SECTION 15: Regulatory information**

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

# **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

# Full text of H-Statements referred to under sections 2 and 3.

- H225 Highly flammable liquid and vapour.
- H412 Harmful to aquatic life with long lasting effects.

# **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.