



# Material Safety Data Sheet

## Dicyclopentadiene

Version: 2.0 EN  
Revision Date: 2025-04

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### SECTION 1: IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

#### 1.1 Product identifiers

Product Name	Dicyclopentadiene
CAS No	77-73-6
Synonyms	DCPD

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Laboratory chemicals, Manufacture of substances
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#### 1.3 Details of the supplier of the safety data sheet

Company	China lithium Products technology Company Limited 9 HG ,No.99 LuJiang Road ,Xiamen city ,China
Telephone	+86 592 2687860
Email	info@lithium-chemical.com

#### 1.4 Emergency telephone number

Emergency phone #	+86 592 2687860
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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Physical Hazards

Flammable liquids	Category 3
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##### Health Hazards

Acute toxicity (Oral)	Category 4
Acute toxicity (Inhalation - vapor)	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Specific Target Organ Toxicity - Single Exposure	Category 3
Aspiration Hazard	Category 1

##### Environmental Hazards

Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 2

#### 2.2 GHS Label elements, including precautionary statements



Pictogram



Signal word

Danger

**Hazard statement(s)**

Flammable liquid and vapor

Toxic if inhaled.

Harmful if swallowed.

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

May be fatal if swallowed and enters airways.

Toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. These alone may be insufficient to remove static electricity. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. Avoid release to the environment.

**Prevention:**

**Response:**

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use dry chemical, foam, carbon dioxide (CO<sub>2</sub>), water spray or fog to extinguish. Collect spillage.

**Storage:**

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

**Disposal:**

Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards which do not result in GHS classification:**

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



### 3.1 Substances

Substance name	Dicyclopentadiene
Formula	C <sub>10</sub> H <sub>12</sub>
CAS No	77-73-6
EC No	201-052-9

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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

Carbon dioxide (CO<sub>2</sub>) Foam Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

### 5.3 Advice for firefighters [www.lithium-chemical.com](http://www.lithium-chemical.com)

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

### 5.4 Further information



Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains. Risk of explosion.

### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### **6.4 Reference to other sections**

For disposal see section 13

## **SECTION 7: HANDLING AND STORAGE**

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

#### **Advice on safe handling**

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### **Advice on protection against fire and explosion**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

#### **Storage class**

Storage class (TRGS 510): 3: 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**

#### **Ingredients with workplace control parameters**

### **8.2 Exposure controls**

**Personal protective equipment****Eye/face protection**

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

**Skin protection**

Flame retardant antistatic protective clothing.

**Body Protection**

Flame retardant antistatic protective clothing.

**Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state	clear, liquid
Color	light yellow
Odor	No data available
Melting point/freezing point	Melting point/ range: 32,2 °C at 1.013 hPa
Initial boiling point and boiling range	172.2 °C (1,013 hPa)
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	32 °C -closed cup
Autoignition temperature	No data available
Decomposition temperature	No data available
PH	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Water solubility	0,02 g/l at 25 °C - slightly soluble
Partition coefficient: n-octanol/water	log Pow: 2,78 at 25 °C
Vapor pressure	1.86 hPa (20 °C)
Density	0.93 g/cm <sup>3</sup> (35 °C)
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none



## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Vapor/air-mixtures are explosive at intense warming.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) . Contains the following stabilizer(s): 4-tert-butylpyrocatechol (0,05 %)

### 10.3 Possibility of hazardous reactions

increased reactivity with: Strong oxidizing agents

Strong acids

Strong alkalis

### 10.4 Conditions to avoid

Heating

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Inhalation

Toxic if inhaled. Inhalation of this product may cause central nervous system symptoms (such as headache, dizziness, and loss of coordination). Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury.

##### Ingestion:

Harmful if swallowed. Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury. Ingestion of this product may result in vomiting, nausea and abdominal pain. May also cause central nervous system symptoms (such as headache, dizziness, and loss of coordination).

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/eye irritation

Causes serious eye irritation.

##### Respiratory or skin sensitization

No data available

##### Germ cell mutagenicity

No data available

##### Carcinogenicity

No data available

##### Reproductive toxicity



No data available

**Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation. - Respiratory system

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment

**12.2 Persistence and degradability**

May persist based on information available

**12.3 Bioaccumulative potential**

No information available

**12.4 Mobility in soil**

Is not likely mobile in the environment due its low water solubility

**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**

Discharge into the environment must be avoided.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**SECTION 14: TRANSPORT INFORMATION**

**DOT (US)**

ADR/RID: 2048	UN proper shipping name: DICYCLOPENTADIENE	Passenger Aircraft: No
Packaging group:III	Transport hazard class(es):3	Environmental hazards: Yes

**IMDG**

IMDG: 2048	UN proper shipping name:DICYCLOPENTADIENE	Passenger Aircraft: No
Packaging group:III	Transport hazard class(es):3	Environmental hazards: Yes



**IATA**

IATA:2048

UN proper shipping name: Dicyclopentadiene

Passenger Aircraft: No

Packaging group:III

Transport hazard class(es):3

Environmental hazards: No

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Other regulations**

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16: OTHER INFORMATION**

**Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product.