

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-14

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

### 1.1 Product identifiers

Product name : Chlorodicyclohexylphosphine  
Product Number : C102805  
Brand : aladdin  
CAS-No. : 16523-54-9

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

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage  
H318 Causes serious eye damage

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 Wash hands [and ...] thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P321           | Specific treatment (see ... on this label).                                                                                      |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P405           | Store locked up.                                                                                                                 |
| P501           | Dispose of contents/container to an approved waste disposal plant.                                                               |
| P264+P265      | Wash hands [and ...] thoroughly after handling. Do not touch eyes.                                                               |
| P305+P354+P338 | IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P317           | Get emergency medical help.                                                                                                      |
| P302+P361+P354 | IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.                    |
| P316           | Get emergency medical help immediately.                                                                                          |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| Synonyms                         | : Dicyclohexylchlorophosphine; Dicyclohexylphosphine chloride; |
| Dicyclohexylphosphinous chloride |                                                                |
| Formula                          | : (C <sub>6</sub> H <sub>11</sub> ) <sub>2</sub> PCI           |
| Molecular weight                 | : 232.73                                                       |
| CAS No.                          | : 16523-54-9                                                   |
| EC-NO.                           | : no data available                                            |

| Component                          | Classification    | Concentration |
|------------------------------------|-------------------|---------------|
| <b>Chlorodicyclohexylphosphine</b> |                   |               |
|                                    | no data available | ≥97%          |

## 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. Move out of dangerous area.

#### If inhaled

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

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during

#### If swallowed

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

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

no data available

**4.3 Indication of any immediate medical attention and special treatment needed**

no data available

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media

Dry powder

Unsuitable extinguishing media

no data available

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

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Oxides of phosphorus, Hydrogen

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

no data available

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate  
<br/>personnel to safe areas.<br/>

**6.2 Environmental precautions**

Do not let product enter drains.<br/><br/>Aldrich - 481408 Page 3 of 7

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

Soak up with inert absorbent material and dispose of as hazardous waste. Do not flush with water. Keep in suitable,  
<br/>closed containers for disposal.<br/>

**6.4 Reference to other sections**

no data available

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

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Avoid inhalation of vapour or mist.<br/>

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.Containers which are opened must be carefully resealed <br/>and kept upright to prevent leakage.<br/>Never allow product to get in contact with water during storage.<br/>

## 7.3 Specific end use(s)

no data available

# 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 <br/>workday.<br/>

### Personal protective equipment

#### Eye/face protection

Tightly fitting safety goggles.Faceshield (8-inch minimum).Use equipment for eye protection tested and approved <br/>under appropriate government standards such as NIOSH (US) or EN 166(EU).<br/>

#### Skin protection

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

#### Body Protection

Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment <br/>must be selected according to the concentration and amount of the dangerous substance at the specific workplace.<br/>

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose <br/>combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.If the <br/>respirator is the sole means of protection, use a full-face supplied air respirator.Use respirators and components <br/>tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).<br/>

#### Control of environmental exposure

no data available

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

- |               |                   |
|---------------|-------------------|
| a) Appearance | no data available |
| b) Odour      | no data available |

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|                                                 |                   |
|-------------------------------------------------|-------------------|
| c) Odour Threshold                              | no data available |
| d) pH                                           | no data available |
| e) Melting point/freezing point                 | no data available |
| f) Initial boiling point and boiling range      | 165 °C            |
| g) Flash point                                  | >110°             |
| h) Evaporation rate                             | no data available |
| i) Flammability (solid, gas)                    | no data available |
| j) Upper/lower flammability or explosive limits | no data available |
| k) Vapour pressure                              | no data available |
| l) Vapour density                               | no data available |
| m) Relative density                             | no data available |
| 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 N                       | no data available |
| t) Oxidizing properties N                       | no data available |

## 9.2 Other safety information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts violently with water.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

Water, Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Oxides of phosphorus, Hydrogen chloride gas

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**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.481408 Page 5 of 7ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**no data available

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**SECTION 12: Ecological information****12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

no data available &lt;br/&gt;

**12.3 Bioaccumulative potential**

no data available &lt;br/&gt;

**12.4 Mobility in soil**

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no data available

**12.5 Results of PBT and vPvB assessment**

no data available <br/><br/>

**12.6 Other adverse effects**

no data available

**SECTION 13:**

**13.1 Disposal considerations**

**Product**

no data available

**Contaminated packaging**

no data available

**SECTION 14: Transport information**

**DOT (US)**

|                                                                                               |                                            |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------|
| UN number: 3265                                                                               | Packing group: II                          | Class: 8                     |
| Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Chlorodicyclohexylphosphine) | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: No |
| Environmental Hazards: No                                                                     |                                            |                              |

**IMDG**

|                                                                                               |                   |            |
|-----------------------------------------------------------------------------------------------|-------------------|------------|
| UN number: 3265                                                                               | Packing group: II | EMS-No: No |
| Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Chlorodicyclohexylphosphine) |                   |            |

**IATA**

|                                                                                               |                   |          |
|-----------------------------------------------------------------------------------------------|-------------------|----------|
| UN number: 3265                                                                               | Packing group: II | Class: 8 |
| Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Chlorodicyclohexylphosphine) |                   |          |

**SECTION 15: Regulatory information**

no data available

**SECTION 16: Other information**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <b>Prepared By</b>      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: QualityAssurance@aladdinsci.com |
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| <b>Revision Date</b>    | 14-Sep-2025                                                                                    |
| <b>Print Date</b>       | 21-Sep-2025                                                                                    |
| <b>Revision Summary</b> | SDS sections updated v1                                                                        |

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