

# SAFETY DATA SHEET

Version: v1

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

### 1.1 Product identifiers

Product name : Dicyclohexyl phthalate  
Product Number : D108627  
Brand : aladdin  
CAS-No. : 84-61-7

### 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)

Skin sensitization (Category 1), H317

Reproductive toxicity (Category 1B), H360D

Long-term (chronic) aquatic hazard (Category 3), H412

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H317

May cause an allergic skin reaction

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H360D May damage the unborn child

**Precautionary statement(s)**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P321 Specific treatment (see ... on this label).  
P302+P352 IF ON SKIN: wash with plenty of water.  
P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container to an approved waste disposal plant.  
P203 Obtain, read and follow all safety instructions before use.  
P318 if exposed or concerned, get medical advice.

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : Phthalic Acid Dicyclohexyl Ester  
Formula : C<sub>20</sub>H<sub>26</sub>O<sub>4</sub>  
Molecular weight : 330.42  
CAS No. : 84-61-7  
EC-NO. : 201-545-9

| Component              | Classification    | Concentration |
|------------------------|-------------------|---------------|
| Dicyclohexyl phthalate | no data available | ≥99%          |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General advice**

no data available

**If inhaled**

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

**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**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### **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

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

#### **5.1 Extinguishing media**

**Suitable extinguishing media**

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

**Unsuitable extinguishing media**

no data available

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

Carbon oxides Combustible.

#### **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.

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

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

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### **6.2 Environmental precautions**

No special environmental precautions required.

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

Keep in suitable, closed containers for disposal.

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

For disposal see section 13.

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

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

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents.

## 7.3 Specific end use(s)

no data available

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## 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. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

##### Body Protection

Complete suit protecting against chemicals, 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 a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. 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 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.

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## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

|                                                 |                                       |
|-------------------------------------------------|---------------------------------------|
| a) Appearance                                   | form: Powder or Crystals color: White |
| b) Odour                                        | no data available                     |
| c) Odour Threshold                              | no data available                     |
| d) pH                                           | no data available                     |
| e) Melting point/freezing point                 | 62-65°C                               |
| f) Initial boiling point and boiling range      | 200-235°C                             |
| g) Flash point                                  | 207°C                                 |
| 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

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## 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

no data available

### 10.5 Incompatible materials

Strong oxidizing agents

## 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

LD50 Oral - Rat - female - > 2.000 mg/kg

(OECD Test Guideline 423)

LD50 Oral - Rat - female - > 2.000 mg/kg

(OECD Test Guideline 423)

Inhalation: Irritating to respiratory system.

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

#### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation Remarks: (External MSDS) Skin - Rabbit Result: No skin irritation - 15 min

(OECD Test Guideline 439) Skin - In vitro study Result: negative (OECD Test Guideline 439)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation Remarks: (External MSDS) Eyes - Bovine cornea Result: No eye irritation

(OECD Test Guideline 437) Eyes - In vitro study Result: negative (OECD Test Guideline 437)

#### Respiratory or skin sensitisation

Local lymph node assay (LLNA) - Mouse Result: positive Remarks: (ECHA) Local lymph node assay (LLNA) - Mouse Result: positive (OECD Test Guideline 442B)

#### Germ cell mutagenicity

Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Mouse lymphoma test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative

#### Carcinogenicity

no data available

#### Reproductive toxicity

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May damage the unborn child.

**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**

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

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

Toxicity to fish semi-static test LC50 - *Oryzias latipes* - > 2 mg/l - 96 h

(OECD Test Guideline 203)

semi-static test LC50 - *Oryzias latipes* (Orange-red killifish) - > 2

mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia

and other aquatic

invertebrates

static test NOEC - *Daphnia magna* (Water flea) - > 2 mg/l - 48 h

(OECD Test Guideline 202)

static test NOEC - *Daphnia magna* (Water flea) - > 2 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - *Pseudokirchneriella subcapitata* (green algae) - >

2 mg/l - 72 h

(OECD Test Guideline 201)

ErC50 - *Pseudokirchneriella subcapitata* - > 2 mg/l - 72 h

(OECD Test Guideline 201)

static test NOEC - *Pseudokirchneriella subcapitata* (green algae) - >

2 mg/l - 72 h

(OECD Test Guideline 201)

NOEC - *Pseudokirchneriella subcapitata* - > 2 mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria static test NOEC - activated sludge - > 100 mg/l - 3 h

(OECD Test Guideline 209)

NOEC - activated sludge - > 100 mg/l - 3 h

(OECD Test Guideline 209)

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## 12.2 Persistence and degradability

aerobic - Exposure time 28 d Result: 68,5 % - Readily biodegradable.aerobic - Exposure time 28 d Result: 68,5 % - Readily biodegradable. Remarks: (ECHA)

## 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

no data available

## 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

no data available

## SECTION 13:

### 13.1 Disposal considerations

#### Product

ecycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### DOT (US)

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: Not dangerous goods

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: No

### IMDG

UN number: no data available

Packing group: no data available

EMS-No: no data available

Proper shipping name: Not dangerous goods

### IATA

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: Not dangerous goods

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## SECTION 15: Regulatory information

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

## SECTION 16: Other information

Prepared By

Regulatory Affairs

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SDS sections updated v1

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