

14078 Meridian Parkway, Riverside, CA. 92518

# 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 : tert-Butyl P,P-dimethylphosphonoacetate

Product Number : T140220
Brand : aladdin
CAS-No. : 62327-21-3

# 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** 

<u>(!)</u>

Warning

Signal word

H315

Hazard statement(s)

Causes skin irritation

H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.



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P271 Use only outdoors or in a well-ventilated area.

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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to an approved waste disposal plant.

P264+P265 Wash hands [and ...] thoroughly after handling. Do not touch eyes.

P337+P317 If eye irritation persists: Get medical help.
P332+P317 If skin irritation occurs: Get medical help.
P319 Get medical help if you feel unwell.

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

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

### 3.1 Substances

Synonyms : Dimethyl (Boc-methyl)phosphonate;tert-Butyl ((oxo)dimethoxyphosphino)acetate; tert-Butyl (dimethoxyphosphinyl)acetate;Dimethyl (tert-

Butoxycarbonylmethyl)phosphonate;Dimethylphosphonoacetic Acid tert-Butyl Ester

Formula : C8H17O5P

Molecular weight : 224.19

CAS No. : 62327-21-3

EC-NO. : no data available

Component Classification Concentration

tert-Butyl P,P-

dimethylphosphonoacetate

no data available ≥97%(GC)

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

# 4.1 Description of first aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If inhaled, please move the patient to fresh air. If breathing stops, give artificial respiration.



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#### In case of skin contact

Rinse with soap and plenty of water. Consult a doctor.

#### In case of eye contact

Thoroughly rinse with plenty of water for at least 15 minutes and consult a doctor.

#### If swallowed

Do not feed anything from the mouth to an unconscious person. Rinse your mouth with water.

# 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

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media

no data available

# 5.2 Special hazards arising from the substance or mixture

no data available

# 5.3 Advice for firefighters

no data available

#### 5.4 Further information

no data available

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

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid inhaling vapors, smoke, or gases. Ensure sufficient ventilation. Remove all sources of ignition. Evacuate personnel to a safe area. Beware of vapor accumulation reaching explosive concentrations. Vapour can accumulate in low-lying areas.

# 6.2 Environmental precautions

Do not allow the product to enter the sewer.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Place in a suitable closed container for disposal.

#### 6.4 Reference to other sections



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For disposal see section 13.

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

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols. Provide suitable exhaust equipment in areas with dust generation.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. The opened container must be carefully resealed and kept in an upright position to prevent leakage.

# 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 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 EN166(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 particle respirator type N100 (US) or type P3 (EN 143) 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

no data available



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# **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 |
| 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 | no data available |
| g) Flash point                             | no data available |
| h) Evaporation rate                        | no data available |
| i) Flammability (solid, gas)               | no data available |

j) Upper/lower flammability or explosive

no data available no data available k) Vapour pressure I) Vapour density no data available m) Relative density no data available no data available n) Water solubility 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 no data available s) Explosive properties N t) Oxidizing properties N no data available

# 9.2 Other safety information

no data available

# **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

no data available



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# 10.6 Hazardous decomposition products

no data available

# **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.

### 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**

Inhalation - May cause respiratory irritation.

#### **Additional Information**

no data available

# **SECTION 12: Ecological information**

### 12.1 Toxicity

no data available

# 12.2 Persistence and degradability

no data available

# 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil



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no data available

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

no data available

### **SECTION 13:**

### 13.1 Disposal considerations

#### **Product**

Recycle 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 Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

goods available available 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

# **SECTION 15: Regulatory information**

no data available

# **SECTION 16: Other information**

Prepared By Regulatory Affairs

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