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 31  
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## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name : [Di-tert-butyl(chloro)phosphine]palladium(II) Dichloride Dimer  
 Product Number : D154284  
 Brand : aladdin  
 CAS-No. : 386706-33-8

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

Identified uses : Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd  
 Address : 36 Xinjinqiao Road, Shanghai  
 Telephone : 400-620-6333  
 Fax : no data available

#### 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

CFR 1910.1200: Eye Damage/Irritation [Category 1] Corrosive to Metals [Category 1] Skin Corrosion/Irritation [Category 1C]

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



Danger

**Pictogram**  
**Signal word**  
**Hazard statement(s)**  
 H290 May be corrosive to metals  
**Precautionary statement(s)**  
 P234 Keep only in original container.  
 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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P302	IF ON SKIN:
P361	Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P405	Store locked up.
P406	Store in corrosive resistant/... container with a resistant inner liner.
P501	Dispose of contents/container to an approved waste disposal plant.

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

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms	:	Dichloro[di-tert-butyl(chloro)phosphine]palladium(II) Dimer
Formula	:	C <sub>16</sub> H <sub>36</sub> Cl <sub>6</sub> P <sub>2</sub> Pd <sub>2</sub>
Molecular weight	:	715.95
CAS No.	:	386706-33-8
EC-NO.	:	no data available

Component	Classification	Concentration
<b>[Di-tert-butyl(chloro)phosphine]palladium(II) Dichloride Dimer</b>	no data available	97%

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General advice

no data available

##### If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

##### In case of skin contact

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

##### In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

##### If swallowed

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

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**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 chemical, carbon dioxide.

**Unsuitable extinguishing media**

Water

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

These products include: Carbon oxides Halogenated compounds Phosphates Metallic oxides. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. WARNING: Highly toxic HCl gas is produced during combustion.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus if possible.

**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**

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**6.2 Environmental precautions**

Prevent product from entering drains.

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

Clean up the dust and collect it in a closed container, taking care not to disperse it. Adhered or aggregated materials shall be disposed of in a timely manner in accordance with local laws and regulations. Prevention of secondary hazards: Do not contact with water. Remove all sources of ignition. In case of fire, fire extinguishing devices shall be prepared. Use spark proof tools and explosion-proof equipment.

**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

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing. May develop pressure. Open carefully. Use corrosive resistant equipment. Conditions for safe storage, including any incompatibilities

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

Keep container tightly closed. Store in a cool and dark place. Store locked up. 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

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

#### Personal protective equipment

##### Eye/face protection

Safety goggles. A face-shield, if the situation requires.

##### Skin protection

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU 2016 / 425 and the en 374 standard derived from it.

##### Body Protection

Impervious gloves. Impervious protective clothing. Protective boots, if the situation requires.

##### Respiratory protection

Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

##### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### a) Appearance

form: Crystal - Powder Solid color: Yellow - Deep yellow red

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b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	222°C (dec.) (432°F)
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 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 proper conditions.

### 10.3 Possibility of hazardous reactions

Decomposes in contact with water and liberates toxic gases.

### 10.4 Conditions to avoid

Moisture

### 10.5 Incompatible materials

Oxidizing agents, Bases, Water

### 10.6 Hazardous decomposition products

Carbon dioxide, Carbon monoxide, Hydrogen chloride, Phosphorus oxide

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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**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**

no data available

**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

**12.3      Bioaccumulative potential**

no data available

**12.4      Mobility in soil**

no data available

**12.5      Results of PBT and vPvB assessment**

no data available

**12.6      Other adverse effects**

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no data available

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#### SECTION 13:

##### 13.1 Disposal considerations

###### **Product**

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Other considerations: Observe all federal, state and local regulations when disposing of the substance.

###### **Contaminated packaging**

Disposal of container: Dispose of as unused product. Do not re-use empty containers.

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#### SECTION 14: Transport information

###### **DOT (US)**

UN number: UN3261	Packing group: III	Class: 8
Proper shipping name: Corrosive solid, acidic, organic, n.o.s	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data
Environmental Hazards: no data available		

###### **IMDG**

UN number: UN3261	Packing group: III	EMS-No: EmS number: F-A, S-B
Proper shipping name: Corrosive solid, acidic, organic, n.o.s		

###### **IATA**

UN number: UN3261	Packing group: III	Class: 8
Proper shipping name: Corrosive solid, acidic, organic, n.o.s		

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#### SECTION 15: Regulatory information

###### **Toxic Substance Control Act**

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list: (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et seq. (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet. US Federal Regulations

###### **US Federal Regulations**

SARA 313: Not Listed

SARA 302: Not Listed

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### **State Regulations**

Massachusetts Not Listed

New Jersey Not Listed

Pennsylvania Not Listed

### **Other Information**

NFPA Rating: HMIS Classification: Health: 1 Health: 1 Flammability: 0 Flammability: 0 Instability: 0 Physical: 0

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

##### **Further information**

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