

# SAFETY DATA SHEETS

According to the UN GHS revision 8

Version: 1.0

Creation Date: July 15, 2024

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## 1. Identification

### 1.1 GHS Product identifier

Product name 2,2-Dimethoxy-2-phenylacetophenone

### 1.2 Other means of identification

Product number D70005

Other names

### 1.3 Recommended use of the chemical and restrictions on use

Identified uses Adhesives and sealant chemicals, Paint additives and coating additives not described by other categories, Photosensitive chemicals

Uses advised against no data available

### 1.4 Supplier's details

Company Tianjin Psaitong Biomedical Technology Co., Ltd  
Beijing Psaitong Biotechnology Co., Ltd

Address Building 145, Yougu New Science Park, Qingguang Town, Beichen District, Tianjin City

Tel/Fax +86-10-60605840

### 1.5 Emergency phone number

Emergency phone number +86-10-60605840

Service hours Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

## 2. Hazard identification

### 2.1 Classification of the substance or mixture

Acute toxicity - Oral, Category 4

Specific target organ toxicity – repeated exposure, Category 2

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 3

### 2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word Warning

Hazard statement(s) H302 Harmful if swallowed

H373 May cause damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)

Prevention P264 Wash ... thoroughly after handling.

|                 |   |
|-----------------|---|
|                 | P270 Do not eat, drink or smoke when using this product.  |
|                 | P260 Do not breathe dust/fume/gas/mist/vapours/spray.   |
|                 | P273 Avoid release to the environment.  |
| <b>Response</b> | P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.  |
|                 | P330 Rinse mouth.   |
|                 | P314 Get medical advice/attention if you feel unwell.   |
| <b>Storage</b>  | none  |
| <b>Disposal</b> | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |

## 2.3 Other hazards which do not result in classification

no data available

## 3. Composition/information on ingredients

### 3.1 Substances

| Chemical name                         | Common names and synonyms             | CAS number | EC number | Concentration |
|---------------------------------------|---------------------------------------|------------|-----------|---------------|
| 2,2-dimethoxy-1,2-diphenylethan-1-one | 2,2-dimethoxy-1,2-diphenylethan-1-one | 24650-42-8 | 246-386-6 | 100%          |

## 4. First-aid measures

### 4.1 Description of necessary first-aid measures

#### General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

#### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### Following skin contact

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

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

### 4.2 Most important symptoms/effects, acute and delayed

no data available

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

## 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

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

### 5.2 Specific hazards arising from the chemical

no data available

### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental release measures

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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### 6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

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

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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## 7. Handling and storage

### 7.1 Precautions for safe handling

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.

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

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

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## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure limit values

no data available

### 8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flammable resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

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## 9. Physical and chemical properties

|   |  |
|---|--|
| <b>Physical state</b>                         | Solid. Powder.                                 |
| <b>Colour</b>                                 | White.   |
| <b>Odour</b>                                  | no data available                              |
| <b>Melting point/ freezing point</b>          | $\geq 63 - \leq 65$ °C. Atm. press.:Ca. 1 atm. |
| <b>Boiling point or initial boiling point</b> | 352.25 °C. Atm. press.:Ca. 1 atm.              |

|   |  |
|---|--|
| <b>and boiling range</b>                                    |  |
| <b>Flammability</b>   | no data available                                  |
| <b>Lower and upper explosion limit / flammability limit</b> | no data available                                  |
| <b>Flash point</b>  | 163 °C. Atm. press.:1 atm.                         |
| <b>Auto-ignition temperature</b>                            | > 400 °C. Atm. press.:1 atm.                       |
| <b>Decomposition temperature</b>                            | no data available                                  |
| <b>pH</b>   | no data available                                  |
| <b>Kinematic viscosity</b>                                  | no data available                                  |
| <b>Solubility</b>   | In water: 66.32 mg/L. Temperature:25 °C. pH:Ca. 7. |
| <b>Partition coefficient n-octanol/water</b>                | log Pow = 2.95. Temperature:25 °C. Remarks:QSAR.   |
| <b>Vapour pressure</b>                                      | 0.002 Pa. Temperature:25 °C.                       |
| <b>Density and/or relative density</b>                      | 1.1 g/cm <sup>3</sup> . Temperature:20 °C.         |
| <b>Relative vapour density</b>                              | no data available                                  |
| <b>Particle characteristics</b>                             | no data available                                  |

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## 10. Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

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## 11. Toxicological information

### Acute toxicity

- Oral: LD50 - rat - 1 470 mg/kg bw.
- Inhalation: no data available
- Dermal: no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

**Reproductive toxicity**

no data available

**STOT-single exposure**

no data available

**STOT-repeated exposure**

no data available

**Aspiration hazard**

no data available

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## 12. Ecological information

### 12.1 Toxicity

- Toxicity to fish: LC50 - 29.67 mg/L - 96 h.
- Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia sp. - 18.387 mg/L - 48 h.
- Toxicity to algae: EC50 - 19.666 mg/L - 96 h.
- Toxicity to microorganisms: IC50 - Tetrahymena pyriformis - 194 mg/L - 48 h.

### 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 Other adverse effects

no data available

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## 13. Disposal considerations

### 13.1 Disposal methods

**Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

**Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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## 14. Transport information

### 14.1 UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### 14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### 14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods. (For

IMDG: Not dangerous goods. (For

IATA: Not dangerous goods. (For

reference only, please check.)

reference only, please check.)

reference only, please check.)

#### 14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

#### 14.5 Environmental hazards

ADR/RID: Yes

IMDG: Yes

IATA: Yes

#### 14.6 Special precautions for user

no data available

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

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### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

| Chemical name  | Common names and synonyms             | CAS number | EC number   |
|--|---------------------------------------|------------|-------------|
| 2,2-dimethoxy-1,2-diphenylethan-1-one                                    | 2,2-dimethoxy-1,2-diphenylethan-1-one | 24650-42-8 | 246-386-6   |
| European Inventory of Existing Commercial Chemical Substances (EINECS)   |                                       |            | Listed.     |
| EC Inventory   |                                       |            | Listed.     |
| United States Toxic Substances Control Act (TSCA) Inventory              |                                       |            | Listed.     |
| China Catalog of Hazardous chemicals 2015                                |                                       |            | Not Listed. |
| New Zealand Inventory of Chemicals (NZIoC)                               |                                       |            | Listed.     |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS)       |                                       |            | Listed.     |
| Vietnam National Chemical Inventory                                      |                                       |            | Listed.     |
| Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) |                                       |            | Listed.     |
| Korea Existing Chemicals List (KECL)                                     |                                       |            | Listed.     |

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### 16. Other information

#### Information on revision

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#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
  - Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
  - ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>
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