

# SAFETY DATA SHEETS

According to GB/T 16483, GB/T 17519

Revision Date: March 20,2021

Creation Date: March 20,2022

SDS Number: FK-11005

Version: V.01

## 1. Identification

### 1.1 Product identifier

Product Name: (di-p-tolylphosphoryl)(mesityl)methanone

CAS No. : 270586-78-2

EC No. : None

### 1.2 Safety technical specification Provider information (Supplier)

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## 2. Hazard identification

### Pictogram(s)



### 2.1 Classification of the substance or mixture

Skin sensitization (Category 1), H317

### 2.2 GHS label elements, including precautionary statements

**Signal word** Warning

**Hazard statement(s)**

H317 May cause an allergic skin reaction.

**Precautionary statement(s)**

**Prevention**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P206 Avoid inhalation of dust / smoke / gas / smoke / vapour / spray.
- P272 Contaminated work clothes shall not be taken out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response**

- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P333 + P313 IF skin irritation or rash occurs: Get medical advice/ attention.
- P391 Collect spillage

**Storage** none

**Disposal**

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**

Chemical name	Concentration(%)	CAS Number
(di-p-tolylphosphoryl)(mesityl)m ethanone	<=100%	270586-78-2

**4. First-aid measures**

**4.1 Description of necessary first-aid measures**

**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 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.

## 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.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure limit values

no data available

#### Biological 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/flame 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

## 9. Physical and chemical properties and safety

### Characteristics

Physical state: Light yellow crystal  
Odour: no data available  
Melting point/freezing: 120~135°C  
Flash point: no data available  
Density and/or relative: 1.12g/cm<sup>3</sup>  
Auto-ignition temperature: no data available  
Decomposition temperature: no data available  
pH: no data available  
Kinematic viscosity: no data available  
Solubility: no data available  
Partition coefficient n-octanol/water: no data available  
Relative vapour density: no data available  
Particle characteristics: no data available

## 10. Stability and reactivity

### 10.1 Reactivity

The reactivity data for this product will be typical of those for the following class of materials: Strong acids. Strong alkalis. Oxidising agents.

### 10.2 Chemical stability

Stable at normal ambient temperatures and when used as recommended. May polymerise.

### 10.3 Possibility of hazardous reactions

May polymerise

### 10.4 Conditions to avoid

Keep away from heat, sparks and open flame. Avoid exposure to high temperatures or direct sunlight. Protect from light.

### 10.5 Incompatible materials

Strong acids. Strong alkalis. Oxidising agents.

### 10.6 Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. Carbon monoxide (CO)

## 11. Toxicological information

### Acute toxicity

Oral: LD<sub>50</sub> >5000 mg/kg

Inhalation: no data available

Dermal: LD<sub>50</sub> >2000 mg/kg

### Skin corrosion/irritation

Dose: 0.5g, 24 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). Not irritating.

### Serious eye damage/irritation

56mg Rabbit Not irritating.

### 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

## 12. Ecological information

### 12.1 Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: 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 Other adverse effects**

no data available

**13. Disposal considerations****13.1 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.

**13.2 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.

**14. Transport information****14.1 UN Number:**

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

**14.2 UN Proper Shipping Name**

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

**14.3 Transport hazard class(es)**

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

**14.4 Packing group, if applicable**

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

**14.5 Environmental hazards**

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

**14.6 Special precautions for user**

no data available

**14.7 Transport in bulk according to IMO instruments**

no data available



## 15. Regulatory information

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

(di-p-tolylphosphoryl)(mesityl)methanone CAS No.: 270586-78-2

### 15.2 Law of the people's Republic of China on the Prevention and Control of Occupational Diseases :

Not Listed

### 15.3 Regulations on the control over safety of Dangerous Chemicals

Not Listed

### 15.4 List of key hazardous chemicals under supervision

Not Listed

### 15.5 Measures for environmental Management registration of Hazardous Chemicals (Trial)

Not Listed

### 15.6 Regulations on the Control of Narcotic Drugs and Psychotropic Substances

Not Listed

### 15.7 New environmental management measures for chemical Substances

Not Listed

## 16. other information

### Information on revision:

This edition is the first edition, in accordance with GB/T 16483-2008, GB/T 17519-2013, GB 30000 series classification standards.

### 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,





Catalyst

Product Name: TMO  
SDS Number: FK-11005  
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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/>

**Any questions regarding this SDS, Please send your inquiry to  
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