

# Cypermethrin

## Company Information

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## SECTION 1: Identification

### 1.1GHS Product identifier

Product name  $\alpha$ -cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

### 1.2Other means of identification

Product number -

Other names Cymperator; Cypermethrin; Alphamethrine

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

Identified uses Industrial and scientific research uses.

Uses advised against no data available

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## SECTION 2: Hazard identification

### 2.1Classification of the substance or mixture

Acute toxicity - Category 3, Oral

Skin sensitization, Category 1

Acute toxicity - Category 4, Inhalation

Specific target organ toxicity – repeated exposure, Category 2

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

### 2.2GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Danger

Hazard statement(s)

H301 Toxic if swallowed

H317 May cause an allergic skin reaction

H332 Harmful if inhaled

H373 May cause damage to organs through prolonged or repeated exposure

|                                   |   |
|-----------------------------------|---|
|                                   | H410 Very toxic to aquatic life with long lasting effects   |
| <b>Precautionary statement(s)</b> |   |
| <b>Prevention</b>                 | <p>P264 Wash ... thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P260 Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P273 Avoid release to the environment.</p>                        |
| <b>Response</b>                   | <p>P301+P316 IF SWALLOWED: Get emergency medical help immediately.</p> <p>P321 Specific treatment (see ... on this label).</p> <p>P330 Rinse mouth.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water/...</p> <p>P333+P317 If skin irritation or rash occurs: Get medical help.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P317 Get medical help.</p> <p>P319 Get medical help if you feel unwell.</p> <p>P391 Collect spillage.</p> |
| <b>Storage</b>                    | P405 Store locked up.   |
| <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.   |

## 2.30ther hazards which do not result in classification

no data available

## SECTION 3: Composition/information on ingredients

### 3.1Substances

| Chemical name  | Common names and synonyms  | CAS number | EC number |
|--|--|------------|-----------|
| $\alpha$ -cyano-3-phenoxybenzyl<br>3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate | $\alpha$ -cyano-3-phenoxybenzyl<br>3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate | 52315-07-8 | 257-842-9 |

## SECTION 4: First-aid measures

### 4.1Description of necessary first-aid measures

#### If inhaled

Fresh air, rest. Refer for medical attention.

#### Following skin contact

Remove contaminated clothes. Rinse and then wash skin with water and soap.

#### Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

#### Following ingestion

Rinse mouth. Refer for medical attention .

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

no data available

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

no data available

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### SECTION 5: Fire-fighting measures

#### 5.1Suitable extinguishing media

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

#### 5.2Specific hazards arising from the chemical

Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.

#### 5.3Special protective actions for fire-fighters

Use powder, AFFF, foam, carbon dioxide. In case of fire: keep drums, etc., cool by spraying with water.

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### SECTION 6: Accidental release measures

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

Personal protection: filter respirator for organic gases and particulates adapted to the airborne concentration of the substance.

Do NOT let this chemical enter the environment. Collect leaking liquid in sealable containers. Do NOT wash away into sewer.

Absorb remaining liquid in sand or inert absorbent. Then store and dispose of according to local regulations.

#### 6.2Environmental 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.

#### 6.3Methods 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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### SECTION 7: Handling and storage

#### 7.1Precautions for safe handling

NO open flames. 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.

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

Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Keep in a well-ventilated room.

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### SECTION 8: Exposure controls/personal protection

## 8.1Control parameters

### Occupational Exposure limit values

no data available

### Biological limit values

no data available

## 8.2Appropriate engineering controls

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

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

### Eye/face protection

Wear face shield.

### Skin protection

Protective gloves. Protective clothing.

### Respiratory protection

Use ventilation, local exhaust or breathing protection.

### Thermal hazards

no data available

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## SECTION 9: Physical and chemical properties and safety characteristics

|  |                   |
|--|-------------------|
| Physical state   | Viscous semisolid |
| Colour   | no data available |
| Odour  | no data available |
| Melting point/freezing point                             | 60-80°C           |
| Boiling point or initial boiling point and boiling range | 170-195°C         |
| Flammability   | no data available |
| Lower and upper explosion limit/flammability limit       | no data available |
| Flash point  | 100°C             |
| 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                    | 6.3               |
| Vapour pressure  | <10 Pa(20°C)      |

|                                 |                   |
|---------------------------------|-------------------|
| Density and/or relative density | 1.12              |
| Relative vapour density         | no data available |
| Particle characteristics        | no data available |

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## SECTION 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. Decomposes above 220°C . This produces toxic fumes including hydrogen cyanide (see ICSC 0492) and hydrogen chloride (see ICSC 0163).

### 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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## SECTION 11: Toxicological information

### Acute toxicity

- Oral: no data available
- 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

#### **ST0T-single exposure**

The substance is irritating to the eyes, skin and respiratory tract. The substance may cause effects on the nervous system. This may result in facial sensation such as tingling, itching or burning.

#### **ST0T-repeated exposure**

no data available

#### **Aspiration hazard**

No indication can be given about the rate at which a harmful concentration of this substance in the air is reached on evaporation at 20°C.

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## **SECTION 12: Ecological information**

### **12.1Toxicity**

- 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

### **12.2Persistence and degradability**

no data available

### **12.3Bioaccumulative potential**

no data available

### **12.4Mobility in soil**

no data available

### **12.5Other adverse effects**

no data available

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## **SECTION 13: Disposal considerations**

### **13.1Disposal 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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## **SECTION 14: Transport information**

### **14.1UN Number**

ADR/RID: UN3349 (For reference only, please check.)  
IMDG: UN3349 (For reference only, please check.)  
IATA: UN3349 (For reference only, please check.)

14.2UN Proper Shipping Name

ADR/RID: PYRETHROID PESTICIDE, SOLID, TOXIC (For reference only, please check.)  
IMDG: PYRETHROID PESTICIDE, SOLID, TOXIC (For reference only, please check.)  
IATA: PYRETHROID PESTICIDE, SOLID, TOXIC (For reference only, please check.)

14.3Transport hazard class(es)

ADR/RID: 6.1 (For reference only, please check.)  
IMDG: 6.1 (For reference only, please check.)  
IATA: 6.1 (For reference only, please check.)

14.4Packing group, if applicable

ADR/RID: I (For reference only, please check.)  
IMDG: I (For reference only, please check.)  
IATA: I (For reference only, please check.)

14.5Environmental hazards

ADR/RID: Yes  
IMDG: Yes  
IATA: Yes

14.6Special precautions for user

no data available

14.7Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

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

| Chemical name  | Common names and synonyms  | CAS number | EC number   |
|--|--|------------|-------------|
| $\alpha$ -cyano-3-phenoxybenzyl<br>3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate | $\alpha$ -cyano-3-phenoxybenzyl<br>3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate | 52315-07-8 | 257-842-9   |
| European Inventory of Existing Commercial Chemical Substances (EINECS)                       |  |            | Listed.     |
| EC Inventory   |  |            | Listed.     |
| United States Toxic Substances Control Act (TSCA) Inventory                                  |  |            | Not Listed. |
| China Catalog of Hazardous chemicals 2015  |  |            | 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.     |

SECTION 16: Other information

Information on revision

Creation Date July 15, 2019

Revision Date July 15, 2019

#### 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/>

#### Other Information

Carrier solvents used in commercial formulations may change physical and toxicological properties.

*Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.*