

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:

Product name: Fenpropathrin

Synonyms: Not available

Catalog number: PI-24387

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

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company identification: PI Chemicals Ltd.
633 Eshan Road,
Pudong New Area, Shanghai China, 201203

Telephone number: +86-21-58953700

Fax number: +86-21-58953701

E-mail address: info@pipharm.com

Emergency telephone number

Emergency number: +86-21-58953706

Section 2 - Hazards Identification

Classification of the substance or mixture:

Regulation (EC) No 1272/2008

Acute toxicity, Inhalation Category 2

Acute toxicity, Oral Category 3

Acute toxicity, Dermal Category 4

Acute aquatic toxicity Category 1

Chronic aquatic toxicity Category 1

Label elements

Classification according to (EC) No 1272/2008



Signal word: Danger

Hazard statement(s):

H301: Toxic if swallowed.

H312: Harmful in contact with skin.

H330: Fatal if inhaled.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P310: Immediately call a POISON CENTER or doctor/ physician.

According to EU Directive 67/548/EEC or 1999/45/EC.

Symbol(s): T+ Very Toxic; N Dangerous for the environment

Risk phrases:

R21: Harmful in contact with skin.

R25: Toxic if swallowed.

R26: Very toxic by inhalation.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S28: After contact with skin, wash immediately with plenty of soap and water.

S36/37: Wear suitable protective clothing and gloves.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets.

HMIS classification:

Health hazard: 4

Chronic Health Hazard: *

Flammability: 0

Physical hazards: 0

NFPA rating:

Health hazard: 4

Fire: 0

Reactivity hazard: 0

Section 3: Composition & Information on Ingredients

Molecular formula: C₂₂H₂₃NO₃

Molecular weight: 349.42

<i>Component</i>	<i>Concentration</i>
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CAS Number:	39515-41-8	95%
EC Number:	254-485-0	

Section 4 - First Aid Measures

- Eye:* Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.
- Skin:* Wash skin with plenty of water at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
- Ingestion:* Wash mouth out with water. Get medical aid immediately.
- Inhalation:* Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical aid.

Section 5 – Fire-Fighting Measures

- Extinguishing media:* Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture:* Carbon oxides, Nitrogen oxides
- Advice for firefighters:* Wear a self-contained breathing apparatus for fire fighting if necessary

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Prevent further spillage or leakage when safe and capable

Methods and materials for containment and cleaning up:

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

Section 7 - Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry and well-ventilated place. Keep container tightly closed.

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Contains no materials with occupational exposure limits.

Exposure controls:

Ensure well ventilation, good industrial hygiene and safety practice.

Personal protective equipment

Eye/Face protection:

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).

Skin/Body protection:

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in accordance with applicable laws. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection:

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9- Physical and Chemical Properties

<i>Physical state:</i>	Solid
<i>Color:</i>	Light yellow
<i>Odour:</i>	Weak odor
<i>Melting point/freezing point:</i>	No data available
<i>Initial boiling point and boiling range:</i>	No data available
<i>Flash point:</i>	> 100.00 °C
<i>Evaporation rate:</i>	No data available
<i>Flammability(solid, gas):</i>	No data available
<i>Upper/lower flammability or explosive limits:</i>	No data available
<i>Vapour pressure:</i>	No data available
<i>Vapour density:</i>	No data available
<i>Relative density:</i>	1.150 g/cm ³ at 20 °C
<i>Solubility:</i>	No data available
<i>Partition coefficient: n-octanol/water:</i>	log Pow: 6 at 20 °C
<i>Auto-ignition temperature:</i>	No data available
<i>Decomposition temperature:</i>	No data available
<i>Viscosity:</i>	No data available

Section 10-Stability and Reactivity

<i>Reactivity:</i>	No data available
<i>Chemical stability:</i>	Stable under recommended temperatures and pressures.
<i>Possibility of hazardous reactions:</i>	No data available
<i>Conditions to avoid:</i>	No data available
<i>Incompatible materials:</i>	Strong oxidizing agents
<i>Hazard Decomposition products:</i>	Carbon oxides, Nitrogen oxides

Section 11 - Toxicological Information

Acute toxicity:

Component: Fenpropathrin

LD50 Oral - rat - 18 mg/kg

LD50 Dermal - rabbit - > 2,000 mg/kg

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization:

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity:

Genotoxicity in vitro - Human - lymphocyte

Micronucleus test

Carcinogenicity:

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Reproductive toxicity: No data available

Specific target organ toxicity (STOT)-single exposure: No data available

Specific target organ toxicity (STOT)-repeated exposure: No data available

Aspiration hazard: No data available

Additional information: RTECS#: GZ2090000

Section 12 – Ecological Information

Toxicity:

Component: Fenpropathrin

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 0.002 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 0.53 µg/l - 48 h

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: Very toxic to aquatic life with long lasting effects.

Section 13 - Disposal Consideration

Waste treatment methods

Product: Dispose of in accordance with federal, state and local environmental regulations

Contaminated packaging: Dispose of as unused product

Section 14 - Transport Information

IATA

UN number: 2811

Hazard class: 6.1
Packing group: II
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (α -Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate)

IMDG

UN number: 2811
Hazard class: 6.1
Packing group: II
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (α -Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate)

RID/ADR

UN number: 2811
Hazard class: 6.1
Packing group: II
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (α -Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate)

DOT(US)

UN number: 2811
Hazard class: 6.1
Packing group: II
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (α -Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate)

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

No data available

*Chemical safety assessment:*No data available

Section 16 – Other Information

SDS creation date: Feb 22, 2013

Update: Apr 29, 2014

Disclaimer:

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