

## SAFETY DATA SHEET

### Section 1 - Identification of Substance or Mixture and Company

*Product identify:*

*Product name:* Cyproconazole  
*Synonyms:* 2-(4-Chlorophenyl)-3-cyclopropyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol  
*Catalog number:* PI-31956

*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](mailto: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 aquatic toxicity Category 1

Chronic aquatic toxicity Category 1

Respiratory toxicity Category 2

Acute toxicity, Oral Category 4

*Label elements*

*Classification according to (EC) No 1272/2008*



*Signal word:* Warning

*Hazard statement(s):*

H302: Harmful if swallowed.

H313 + H333: May be harmful in contact with skin or if inhaled.

H320: Causes eye irritation.

H361: Suspected of damaging fertility or the unborn child.

H400: Very toxic to aquatic life.

*Precautionary statement(s)*

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342 + P311: IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

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

*Symbol(s):* Xn Harmful ; N Dangerous for the environment

*Risk phrases:*

R63: Possible risk of harm to the unborn child.

R22: Harmful if swallowed

R50/53: Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*Safety phrases:*

S36/37: Wear suitable protective clothing and gloves.

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

S61: Avoid release to the environment. Refer to special instructions safety data sheet.

*HMIS classification:*

Health hazard: 1

Chronic health hazard: \*

Flammability: 1

Physical hazards 0

*NFPA rating:*

Health hazard: 1

Fire: 1

Reactivity hazard: 0

### ***Section 3: Composition & Information on Ingredients***

*Molecular formula:* C<sub>15</sub>H<sub>18</sub>ClN<sub>3</sub>O

*Molecular weight:* 291.78

<i>Component</i>	<i>Concentration</i>
<i>CAS Number:</i> 94361-06-5	95%
<i>EC Number:</i>	

## **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, dry chemical, carbon dioxide, or appropriate foam.
- Special hazards arising from the substance or mixture:* Carbon oxides, nitrogen oxides, Hydrogen chloride gas.
- 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 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>	Crystalline powder
<i>Color:</i>	Off-white
<i>Odour:</i>	Odorless
<i>Melting point/freezing point:</i>	104-106 °C (219-223 °F)
<i>Initial boiling point and boiling range:</i>	No data available
<i>Flash point:</i>	> 100 °C (> 212 °F)
<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>	No data available
<i>Solubility:</i>	No data available
<i>Partition coefficient: n-octanol/water:</i>	No data available
<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, Hydrogen chloride gas.

## ***Section 11 - Toxicological Information***

*Acute toxicity:*

Component: Cyproconazole

LD50 Oral - rat - 1,020 mg/kg. LD50 Dermal-rat-&gt; 2,000 mg/kg

LC50 Inhalation-rat-4 h-> 5,650 mg/m<sup>3</sup>*Skin corrosion/irritation:* No data available*Serious eye damage/eye irritation:* Eyes-rabbit-Mild eye irritation.*Respiratory or skin sensitization:* May cause allergic reactions.*Germ cell mutagenicity:* No data available*Carcinogenicity:*

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

*Reproductive toxicity:*

Suspected human reproductive toxicant

Reproductive toxicity-rabbit-Oral

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Reproductive toxicity-rat-Oral

Maternal Effects: Other effects. Effects on Embryo or Fetus: Fetal death. Specific Developmental

Abnormalities: Craniofacial (including nose and tongue).

Reproductive toxicity-rat-Oral

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Fertility: Litter size (e.g., # fetuses per litter; measured before birth). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus)

*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#: XZ4803250**Section 12 – Ecological Information***Toxicity:* No data available

Component: Cyproconazole

Toxicity to fish:

LC50-Oncorhynchus mykiss (rainbow trout)-19 mg/l-96.0 h

Toxicity to daphnia and other aquatic invertebrates:

EC50-Daphnia magna (Water flea)-26 mg/l-48 h

*Persistence and degradability:* No data available*Bioaccumulative potential:* No data available

Component: Cyproconazole Log Pow: 2.9

*Mobility in soil:* No data available*Results of PBT and vPvB assessment:* No data available

Other adverse effects: No data available

### 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: 3077

Hazard class: 9

Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Cyproconazole)

#### IMDG

UN number: 3077

Hazard class: 9

Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Cyproconazole)

#### RID/ADR

UN number: 3077

Hazard class: 9

Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Cyproconazole)

#### DOT(US)

Not dangerous goods

### 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: Nov 19, 2013

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Update:

Nov 19, 2013

*Disclaimer:*

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