

## Safety Data Sheet

according to UK REACH Regulation

### Cyproconazole

Revision date:

Product code: PS390

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Cyproconazole

#### Further trade names

alpha-(4-Chlorophenyl)-alpha-(1-cyclopropylethyl)-1H-1,2,4-triazole-1-ethanol

Substance name: Cyproconazole

CAS No: 94361-06-5

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Reference standard for analysis.

### 1.3. Details of the supplier of the safety data sheet

Company name: WITEGA Laboratorien Berlin-Adlershof GmbH

Street: James-Franck-Strasse 4

Place: D-12489 Berlin

Telephone: +493063922001

Telefax: +493063922007

e-mail: witega@witega.de

Internet: www.witega.de

### 1.4. Emergency telephone number:

+493063922001

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Repr. 1B; H360D

Acute Tox. 3; H301

STOT RE 2; H373

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

Signal word: Danger

Pictograms:



#### Hazard statements

H301 Toxic if swallowed.

H360D May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P281 Use personal protective equipment as required.

P262 Do not get in eyes, on skin, or on clothing.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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present and easy to do. Continue rinsing.

**2.3. Other hazards**

No data available

**SECTION 3: Composition/information on ingredients****3.1. Substances**Sum formula: C<sub>15</sub>H<sub>18</sub>ClN<sub>3</sub>O

Molecular weight: 291.78 g/mol

**Hazardous components**

| CAS No     | Chemical name  |          |          | Quantity |
|------------|--|----------|----------|----------|
|            | EC No  | Index No | REACH No |          |
|            | Classification (GB CLP Regulation)   |          |          |          |
| 94361-06-5 | Cyproconazole  |          |          | 100 %    |
|            | Repr. 1B, Acute Tox. 3, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H360D H301 H373 H400 H410 |          |          |          |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No     | EC No | Chemical name  | Quantity |
|------------|-------|--|----------|
|            |       | Specific Conc. Limits, M-factors and ATE   |          |
| 94361-06-5 |       | Cyproconazole  | 100 %    |
|            |       | inhalation: LC <sub>50</sub> = > 5650 mg/l (vapours); dermal: LD <sub>50</sub> = > 2.000 mg/kg; oral: LD <sub>50</sub> = 200 mg/kg |          |

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Remove contaminated, saturated clothing immediately. Subsequently wash off with: Water and soap

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

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#### Suitable extinguishing media

Water spray jet. Foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

#### **5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Pyrolysis products, toxic. In case of fire and/or explosion do not breathe fumes.

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

##### General advice

Use personal protection equipment. Do not breathe gas/fumes/vapour/spray.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

#### **6.3. Methods and material for containment and cleaning up**

##### Other information

Take up dust-free and set down dust-free.

#### **6.4. Reference to other sections**

Disposal: see section 13

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

##### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

##### Advice on general occupational hygiene

Use personal protection equipment.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Avoid: UV-radiation/sunlight

##### Further information on storage conditions

storage temperature: 2-8°C

#### **7.3. Specific end use(s)**

none

### SECTION 8: Exposure controls/personal protection

#### **8.1. Control parameters**

#### **8.2. Exposure controls**

##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Eye glasses with side protection

##### Hand protection

Wear suitable gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

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#### Skin protection

lab coat

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                   |
|---|-------------------|
| Physical state:   | solid             |
| Colour:   | white             |
| Odour:  | odourless         |
| Melting point/freezing point:                             | 104-106 °C        |
| Boiling point or initial boiling point and boiling range: | No data available |
| Flammability:   | No data available |
| Lower explosion limits:                                   | No data available |
| Upper explosion limits:                                   | No data available |
| Flash point:  | No data available |
| Auto-ignition temperature:                                | No data available |
| Decomposition temperature:                                | No data available |
| pH-Value:   | No data available |
| Water solubility:   | No data available |
| Solubility in other solvents                              |                   |
| No data available   |                   |
| Partition coefficient n-octanol/water:                    | No data available |
| Vapour pressure:  | No data available |
| Density:  | No data available |
| Relative vapour density:                                  | No data available |

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

#### Other safety characteristics

Evaporation rate:

No data available

#### Further Information

none

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with : Oxidising agent, Alkali (lye), Etchant and acids

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

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#### 10.4. Conditions to avoid

Do not expose to temperatures exceeding 50 °C/122 °F.

#### 10.5. Incompatible materials

Oxidising agent, Alkali (lye), Etchant and acids

#### 10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

##### Acute toxicity

Toxic if swallowed.

| CAS No     | Chemical name           |                    |         |        |        |
|------------|-------------------------|--------------------|---------|--------|--------|
|            | Exposure route          | Dose               | Species | Source | Method |
| 94361-06-5 | Cyproconazole           |                    |         |        |        |
|            | oral                    | LD50 200 mg/kg     | Rat     |        |        |
|            | dermal                  | LD50 > 2.000 mg/kg | Rat     |        |        |
|            | inhalation (4 h) vapour | LC50 > 5650 mg/l   | Rat     |        |        |

##### Irritation and corrosivity

Based on available data, the classification criteria are not met.

##### Sensitising effects

Based on available data, the classification criteria are not met.

##### Carcinogenic/mutagenic/toxic effects for reproduction

May damage the unborn child. (Cyproconazole)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

##### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Cyproconazole)

##### Aspiration hazard

Based on available data, the classification criteria are not met.

##### Specific effects in experiment on an animal

No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

No data available

| CAS No     | Chemical name       |              |           |                                     |        |        |
|------------|---------------------|--------------|-----------|-------------------------------------|--------|--------|
|            | Aquatic toxicity    | Dose         | [h]   [d] | Species                             | Source | Method |
| 94361-06-5 | Cyproconazole       |              |           |                                     |        |        |
|            | Acute fish toxicity | LC50 19 mg/l | 96 h      | Oncorhynchus mykiss (Rainbow trout) |        |        |

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#### **12.2. Persistence and degradability**

No data available

#### **12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

#### **Partition coefficient n-octanol/water**

| CAS No     | Chemical name | Log Pow |
|------------|---------------|---------|
| 94361-06-5 | Cyproconazole | 3,1     |

#### **12.4. Mobility in soil**

No data available

#### **12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

#### **12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### **12.7. Other adverse effects**

No data available

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

Dispose of waste according to applicable legislation.

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

##### **Contaminated packaging**

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

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

##### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

#### **Inland waterways transport (ADN)**

##### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

#### **Marine transport (IMDG)**

##### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

#### **Air transport (ICAO-TI/IATA-DGR)**

##### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

No data available

#### **14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

### SECTION 15: Regulatory information

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

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#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

3 - highly hazardous to water

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

#### SECTION 16: Other information

##### Relevant H and EUH statements (number and full text)

|       |  |
|-------|--|
| H301  | Toxic if swallowed.  |
| H360D | May damage the unborn child.                                       |
| H373  | May cause damage to organs through prolonged or repeated exposure. |
| H400  | Very toxic to aquatic life.  |
| H410  | Very toxic to aquatic life with long lasting effects.              |

##### Further Information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The substances are only for R&D. Do not use as a drug, in household or other applications.