

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product name:

Cyproconazole

### 1.1. Catalog No.:

673868

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

### 1.3. Uses advised against:

HPC Standards GmbH  
Am Wieseneck 7

04451 Cunnersdorf  
Deutschland

Tel. +49 34291 3372-36  
Fax. +49 34291 3372-39  
contact@hpc-standards.com

### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

## 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Acute toxicity - Oral Category 3 - (H301)  
Reproductive toxicity Category 1B - (H360D)  
Specific target organ toxicity -- repeated exposure  
Acute aquatic toxicity Category 1 - (H400)  
Chronic aquatic toxicity Category 1 - (H410)

### 2.2. Label elements

#### 2.2.1. Pictogram



#### 2.2.2.

2.2. Label elements  
619-020-1

Contains Cyproconazole (ISO)

Signal word - Danger

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 - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P391 - Collect spillage

2.3. Other hazards

No information available.

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

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name

Cyproconazole (ISO) 94361-06-5

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### 3.1.1. Formula

C<sub>15</sub>H<sub>18</sub>ClN<sub>3</sub>O

#### 3.1.2. Molecular Weight (g/mol)

291.78

### 3.1.3. CAS-No.

94361-06-5

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove to fresh air.

#### Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor

#### Skin contact

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.

#### Ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.

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

Symptoms No information available.

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

Note to doctors Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Large Fire

CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media  
Do not scatter spilled material with high pressure water streams.

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

Specific hazards arising from the chemical  
No information available.

#### 5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters  
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.  
Use personal protection equipment

## 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

Other information

Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

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

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye, face protection. Wash hands before breaks and immediately after handling the product.

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

Storage Conditions

Please refer to the manufacturers certificate for specific storage and transport temperature conditions.

Store only in the original receptacle unless other advice is given on the CoA.  
Keep containers tightly closed in a dry, cool and well ventilated place. Keep out of the reach of children. Store locked up.

#### 7.3. Specific end use

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) - No information available.

Predicted No Effect Concentration (PNEC) - No information available.

### 8.2. Exposure controls

#### Personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

#### Hand protection

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective Viton(TM) gloves. Wear suitable gloves.

#### Skin and body protection

Wear suitable protective clothing.

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### General hygiene considerations

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

#### Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid

Appearance Crystalline

Colour light brown

Odour Odourless.

Odour threshold No information available

Property	Values	Remarks o Method
Melting point / freezing point	106 - 107 °C	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	299	°C None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	93 mg/l	@ 20 °C
Solubility(ies)	Acetone, Ethyl acetate, Methanol	
Partition coefficient	3.1	None known
Vapour pressure	No data available	None known
Relative density 1.25 @ 21 °C		
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

## 9.2. Other information

Molecular weight 291.77

Molecular formula C15 H18 Cl N3 O

### 9.2.1. Information with regards to physical hazard classes

Not applicable 299 °C 299 °C

### 9.2.2. Other safety characteristics

No information available

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

### 10.5. Incompatible materials

Incompatible materials None known based on information supplied.  
Hazardous decomposition products None known based on information supplied

## 11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008  
Information on likely routes of exposure

Product Information

Inhalation - Specific test data for the substance or mixture is not available.

Eye contact - Specific test data for the substance or mixture is not available.

Ingestion - Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms - No information available

Numerical measures of toxicity

Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Cyproconazole (ISO)	= 200 mg/kg (Rat)	> 2000 mg/kg ( Rat )	> 5650 mg/m <sup>3</sup> ( Rat ) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation - Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation - No information available.

Respiratory or skin sensitisation - No information available.

Germ cell mutagenicity - No information available.

Carcinogenicity - No information available

Reproductive toxicity - Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Cyproconazole (ISO)	Repr. 1B

STOT - single exposure No information available.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure

H373 - May cause damage to the following organs through prolonged or repeated exposure: Liver.

Aspiration hazard - No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties - No information available.

11.2.2. Other information

Other adverse effects - No information available

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity - Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Cyproconazole (ISO)	EC50: 0.099 mg/l (Scenedemus subspicatus, 72h)	LC50: 19 mg/l (Oncorhynchus mykiss, 96h)	-	EC50: > 22 mg/l (Daphnia magna, 72h)

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment - No information available

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties - No information available.

12.7. Other adverse effects - No information available

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers

## 14. TRANSPORT INFORMATION

IATA

14.1 UN number or ID number UN2811

14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Cyproconazole (ISO))



14.3 Transport hazard class(es) 6.1

14.4 Packing group III

Description UN2811, Toxic solid, organic, n.o.s. (Cyproconazole (ISO)), 6.1, III

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions A3, A5

ERG Code 6L

#### IMDG

14.1 UN number or ID number UN2811

14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Cyproconazole (ISO))

14.3 Transport hazard class(es) 6.1

14.4 Packing group III

Description UN2811, Toxic solid, organic, n.o.s. (Cyproconazole (ISO)), 6.1, III, Marine pollutant

14.5 Marine pollutant P

Environmental hazards

Yes

14.6 Special precautions for user

Special Provisions 223, 274

EmS-No. F-A, S-A No information available

14.7 Maritime transport in bulk

according to IMO instruments

No information available

#### RID

14.1 UN number or ID number UN2811

14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Cyproconazole (ISO))

14.3 Transport hazard class(es) 6.1

14.4 Packing group III

Description UN2811, Toxic solid, organic, n.o.s. (Cyproconazole (ISO)), 6.1, III, Environmentally

Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions 274, 614

Classification code T2

#### ADR

14.1 UN number or ID number UN2811

14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Cyproconazole (ISO))

14.3 Transport hazard class(es) 6.1

14.4 Packing group III

Description UN2811, Toxic solid, organic, n.o.s. (Cyproconazole (ISO)), 6.1, III, (E), Environmentally

Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions 274, 614

Classification code T2

Tunnel restriction code (E)

## 15. REGULATORY INFORMATION

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. HPC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the users intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

## 16. OTHER INFORMATION

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. For lab use only!