

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 06 May 2025

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product name:

Tebuconazole

## 1.1. Catalog No.:

672885

# 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 Acute toxicity, Oral (Category 4), H302 Reproductive toxicity (Category 2), H361d Chronic aquatic toxicity (Category 2), H411 Classification according to EU Directives 67/548/EEC or 1999/45/EC R63 Xn Harmful R22 N Dangerous for the environment R51/53

### 2.2. Label elements

### 2.2.1. Pictogram





2.2.2.

Signal word Warning Hazard statement(s) H302 Harmful if swallowed. H361d Suspected of damaging the unborn child. H411 Toxic to aquatic life with long lasting effects. Precautionary statement(s) P273 Avoid release to the environment. P281 Use personal protective equipment as required. Supplemental Hazard Statements none 2.3 Other hazards - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Synonyms : 1-(4-Chlorophenyl)-4,4-dimethyl-3-(1H-1,2,4-triazol-1-ylmethyl)-3pentanol Formula : C16H22CIN3O Molecular Weight : 307,82 g/mol CAS-No. : 107534-96-3 EC-No. : 403-640-2 Index-No. : 603-197-00-7 Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification Concentration 1-(4-Chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol CAS-No. EC-No. Index-No. 107534-96-3 403-640-2 603-197-00-7 Acute Tox. 4; Repr. 2; Aquatic Chronic 2; H302, H361d, H411 <= 100 % Hazardous ingredients according to Directive 1999/45/EC Component Classification Concentration 1-(4-Chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol CAS-No. EC-No. Index-No. 107534-96-3 403-640-2 603-197-00-7 Xn, N, Repr.Cat.3, R22 -R51/53 - R63 <= 100 %

3.1.1. Formula C16H22CIN3O



## 3.1.2. Molecular Weight (g/mol)

307.82

# 3.1.3. CAS-No.

107534-96-3

## 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2 Most important

symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed no data available

# 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas 5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary. 5.4 Further information no data available

# 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed

containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of instantiated gloves after use in accordance with applicable laws and good laboratory practices. contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection** 

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties a) Appearance Form: solid

- b) Odour no data available
- c) Odour Threshold no data available
- d) pH 6 at 20

#### **10. STABILITY AND REACTIVITY**

no data available 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions no data available 10.4 Conditions to sucid 10.1 Reactivity 10.4 Conditions to avoid no data available 10.5 Incompatible materials Strong oxidizing agents 10.6 Hazardous decomposition products Other decomposition products - no data available In the event of fire: see section 5

#### **11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects Acute toxicity LD50 Oral - rat - 1.700 mg/kg LD50 Oral - Chicken - 4.488 mg/kg LC50 Inhalation - rat - 4 h - > 800 mg/m3 LD50 Dermal - rat - > 5.000 mg/kg Skin corrosion/irritation Skin - rabbit Result: No skin irritation Serious eye damage/eye irritation Eyes - rabbit Result: No eye irritation Respiratory or skin sensitisation no data available Germ cell mutagenicity no data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity Suspected human réproductive toxicant Reproductive toxicity - rat - Oral Maternal Effects: Other effects. Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Eye, ear. Effects on Newborn: Growth statistics (e.g., reduced weight gain). Specific Developmental Abnormalities: Musculoskeletal system. Reproductive toxicity - mouse - Oral Maternal Effects: Other effects. Effects on Newborn: Other neonatal measures or effects. Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Additional Information RTECS: XZ4803270



# **12. ECOLOGICAL INFORMATION**

12.1 Toxicity Toxicity to fish LC50 - Carassius auratus (goldfish) - 8,7 mg/l - 96,0 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 11,8 mg/l - 48 h Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 5,3 mg/l - 72 h 12.2 Persistence and degradability Biodegradability 12.3 Bioaccumulative potential no data available 12.4 Mobility in soil no data available 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects Toxic to aquatic life with long lasting effects. Avoid release to the environment.

#### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product

## 14. TRANSPORT INFORMATION

14.1 UN number ADR/RID: 3077 IMDG: 3077 IATA: 3077 14.2 UN proper shipping name ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1-(4-Chlorophenyl)-4,4dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1-(4-Chlorophenyl)-4,4dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol) IATA: Environmentally hazardous substance, solid, n.o.s. (1-(4-Chlorophenyl)-4,4-dimethyl-3-(1,2,4triazol-1-ylmethyl)pentan-3-ol) 14.3 Transport hazard class(es) ADR/RID: 9 IMDG: 9 IATA: 9 14.4 Packaging group ADR/RID: 1II IMDG: III IATA: III 14.5 Environmental hazards ADR/RID: yes IMDG Marine pollutant: yes IATA: yes 14.6 Special precautions for user Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.



# **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

#### **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!