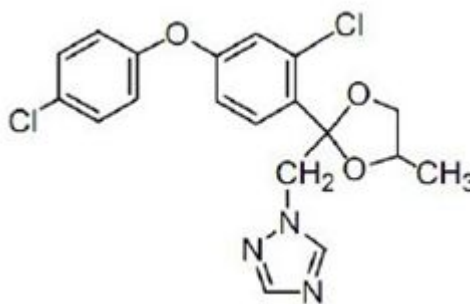


Material Safety Data Sheet

DIFENOCONAZOLE 95% TC

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Formulation Type: Technical material
Active Ingredients: Difenoconazole
Chemical product name: Difenoconazole 95% TC
Common chemical name: 1-[2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole CAS NO.119446-68-3
Molecular Formula: C₁₉H₁₇Cl₂N₃O₃
Molecular Weight: 406.3



Structural Formula:

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average by Weight</u>
Difenoconazole	119446-68-3	≥95%
other	Not available	≤5%

SECTION 3 - HAZARDS IDENTIFICATION

Symptoms of Acute Exposure: May cause eye irritation.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

Unusual Fire, Explosion and Reactivity Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

SECTION 4 - FIRST AID MEASURES

General: Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from undercooling.

In case of suspected poisoning: Immediately call a physician.

Eye Contact: Rinse eyes with clean water for several minutes and immediately call a physician.

Ingestion: Repeatedly administer medicinal charcoal in a large quantity of water. Note: Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin Contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water, including hair and under fingernails.

Medical Instructions

Antidote: No specific antidote is known! Apply symptomatic therapy.

Experiences Specific to Man: No case of human poisoning is on record.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical extinguisher, foam, carbon dioxide or water spray (do not use direct jet of water).

Special Hazards during Fire Fighting: Combustion products are toxic and/or irritant.

Measures have to

be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Protective Equipment for Fire Fighting: Use self contained breathing apparatus. Wear protective equipment.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from

entering sewage and drainage systems or any body of water. Clean up spills immediately, observing

precautions outlined in Section 8. Cover entire spill with absorbing material and place into

compatible

disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic

and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container.

Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

SECTION 7 - HANDING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL, PROTECTION

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Flash-Point: 64 °C

Melting point : 78.6°C

Density: 1.40g/cm³@20°C

Vapor pressure: 3.3×10⁻⁵mPa@25°C

PH Value: 5 - 8 (1 %; in deionised water) CIPAC MT 75

Solubility: 15mg/l@25°C

Partition coefficient: KowlogP = 4.20@25°C

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

Materials to Avoid: Strong oxidizers.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD50: 1453 mg/kg (rat) > 2000 mg/kg (mouse)

Acute Dermal Toxicity: LD50: > 2010 mg/kg (rat)

Acute Skin Irritation: non-irritant (rabbit)

Skin Sensitization: not sensitizing (guinea pig)

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity to birds

Acute oral LD50 : mallard (9-11d) > 2150 mg/kg

Bobwhite feeding LC50 (8d) > 4760 mg/kg

Mallard feeding LC50 > 5000 mg/l

Toxicity to fish

LC50 (96h): rainbow trout 0.8 mg/l

Bluegill 1.2 mg/l

Earthworm LC50 (14d) > 610 mg/l soil

Daphnia LC50 (14d): 0.77 mg/l

Not toxic to bee: LD50 (oral) > 187 µg /bee, LD50 (contact) > 100 µg /bee

SECTION 13 - DISPOSAL CONSIDERATIONS

Do not reuse product containers. Dispose of product containers, waste containers, and residues according

to local, state, and federal health and environmental regulations.

SECTION 14 - TRANSPORT INFORMATION

Water Transport-International

Identification No: UN 3082

Packing Group: PG III
Air transport-international
Classification: not regulated

SECTION 15 - REGULATORY INFORMATION

Keep locked-up and out of the reach of children.
Keep away from food, drink and animal feeding stuffs.
When using, do not eat, drink or smoke.
Do not breathe spray
This material and its container must be disposed of in a safe way.
Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
Use appropriate containment to avoid environmental contamination.

SECTION 16 - OTHER INFORMATION

Disclaimer: Choice Chemicals Ltd.. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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