

DEFENCE 250 EC

MATERIAL SAFETY DATA SHEET

SECTION-1 PRODUCT / COMPANY IDENTIFICATION

Product Name : DEFENCE 250 EC

Active Ingredient : Difenoconazole 250 g/L EC

Chemical Name : 3-Chloro-4-[(2RS, 4RS; 2RS,4SR)-4-methyl-2-(1H-1,2,4-triazol-1-

ylmethyl)-1,3-dioxolan-2-yl]phenyl-4-chlorophenyl ether.

CAS No : 119446-68-3

Type of Formulation : Emulsifiable concentrate (EC)

Indented Use : Commercial Fungicide

Company/Supplier : SINERIA HOLLAND BV.

details Randwycksingel 20-A01

Randwycksingel 20-A015 6229 EE, Maastricht.

The Netherlands
www.sineria.com

SECTION-2 COMPOSITION/ INFORMATION ON INGREDIENTS

Active IngredientCAS NoQTY (g/L)Difenoconazole119446-68-3250 g/L

SECTION-3 HAZARD IDENTIFICATION

Pictograms :





H-Statements

H302 : Harmful if swallowed

H319 : Causes serious eye irritation H400 : Very toxic to aquatic life

H410 : Very toxic to aquatic life with long-lasting effects

Precautionary Statements

P102 : Keep out of reach of children.
P260 : Do not breathe mist, vapors

P270 : Do not eat, drink or smoke when using this product.

P280 : Wear protective gloves, protective clothing and eye and/or face

protection.



SECTION-4

FIRST AID MEASURES

General Advice

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

First aider: Pay attention to self-protection!.

If ingestion

: Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If

symptoms persist, call a physician.

If inhaled

: If product is inhaled, remove person to fresh air. If not breathing, give artificial respiration. Seek medical attention if breathing problems

develop.

If on skin

: Remove contaminated clothing. Wash skin and hair thoroughly; do

two soap and water washings.

If in eyes

: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for

treatment advice.

Note to physicians

: Treat symptomatically

SECTION-5

FIRE FIGHTENING MEASURES

Suitable extinguishing

Firefighting Instructions

media

Use extinguishing measures that are appropriate to local circumstances

and the surrounding environment

No specific hazard known.

Specific hazards

arising from the

chemical

Fire fighters should wear full protective gear, including self-contained

breathing apparatus. Keep unnecessary people away. If it can be

done safely, remove intact containers from the fire.

In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.

SECTION-6

ACCIDENTAL RELEASE MEASURES

Personal precautions,
protective equipment
and emergency
procedures

In case of spillage it is important to take all steps necessary to: Avoid contact with the spilled material or contaminated surfaces. Extinguish or remove any sources of ignition. When dealing with spills do not eat, drink or smoke and wear protective clothing and equipment. Keep people and animals away. Prevent spilled material



from entering drains or watercourses.

Environmental precautions

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

Reposition any leaking containers so as to minimize leakage. Dam and absorb spill with an absorbent material (eg. sand or soil). Shovel the absorbed spill into drums

Methods and materials for containment and cleaning up

safe storage

Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

SECTION-7 HANDLING AND STORAGE

Precautions for Safe work practices are recommended. Avoid contact with eyes and safe handling

skin.

When opening the container and preparing spray wear appropriate PPE (refer Section 8).

Do not spray under high wind conditions.

Keep out of reach of children, unauthorized persons and animals. Conditions for

Store in tightly sealed original containers in a dry secure place away

from fertilizers, feed and food.

Incompatibilities Store out of direct sunlight and extreme temperature.

EXPOSURE CONTROLS AND PERSONAL PROTECTION SECTION-8

Engineering controls Use only with adequate ventilation. Keep container tightly closed. Do

not generate dust.

Personal protective equipment (PPE)

Respiratory protection Use NIOSH/MSHA approved respirator appropriate for exposure of

concern.

Hand protection Protective gloves :

Eye protection Wear safety glasses with side shields. Additionally, wear a face shield

where the possibility exists for face contact due to splashing, spraying

or airborne contact with this material.

Skin Where there is potential for skin contact have available and wear as and body:

protection appropriate impervious gloves, apron, pants, and jacket.



SECTION-9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Yellow to brown liquid

Odor : Aromatic

pH : 5-9Flash Point : $>54^{\circ}C$

Explosive Properties : Non-Explosive
Oxidizing properties : Not oxidizing

Stability : Stable under normal temperature and pressure

SECTION-10 STABILITY & REACTIVITY

Possibility of Hazardous : No dangerous reaction known under conditions of normal use and

Reactions storage conditions.

Chemical Stability : This product is chemically stable under recommended conditions of

storage, use and temperature.

Conditions to Avoid : Protect this product from light. Store in the closed original container

in a dry, cool, well ventilated area out of direct sunlight.

Incompatible materials : Strong acids, strong bases, strong oxidizing agents.

Polymerization : This product will not undergo polymerization reactions.

SECTION-11 TOXICOLOGICAL INFORMATION

Acute oral LD $_{50}$, mg/kg rats : >4000 Acute dermal LD $_{50}$, mg/kg rabbits : >4500 Acute Inhalation LD $_{50}$, mg/kg rat : >6. 98 (4h) Skin Irritation (rabbits) : Not an irritant Eye Irritation (rabbits) : Mild irritant Skin Sensitization (guinea pigs) : Not a sensitizer

SECTION-12 ECO-TOXICOLOGICAL INFORMATION

Acute oral LD $_{50}$ for Mallard duck : >4550 mg/kg Acute oral LD $_{50}$ for Japanese quail : >4000 mg/Kg Rainbow trout LC $_{50}$, (96h) : >3.20 mg/L Daphnia LC $_{50}$ (48h) : >1.8 mg/L

Bees (LD₅₀, μ g/bee) : > 400 (contact); 500 (oral)

Worms (LC₅₀, for Eisenia fetida) : >1000mg/Kg soil



SECTION-13

DISPOSAL CONSIDERATIONS

Waste from residues/unused

products

Disposal should be in accordance with applicable regional,

national and local laws and regulations.

Contaminated packaging : Improper disposal or reuse of this container may be dangerous

and illegal.

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SECTION-14 TRANSPORT INFORMATION

General Transport Information : It is considered good practice not to transport agricultural

chemical products with food, food related materials and

animal feed products.

Proper shipping Name : Environmentally hazardous substance, liquid, N.O.S.

[Land/Air/Sea] (Contains Difenoconazole)

UN Number : 3082

Class : 9 Packaging group : III

SECTION-15

REGULATORY INFORMATION

GHS07: Harmful

GHS09: Environmental hazard

H-Statements

H302 : Harmful if swallowed

H319 : Causes serious eye irritation H400 : Very toxic to aquatic life

H410 : Very toxic to aquatic life with long-lasting effects

Precautionary Statements

P102 : Keep out of reach of children.

P201 : Keep away from heat, sparks, open flames. - No smoking

P260 : Do not breathe mist, vapors

P270 : Do not eat, drink or smoke when using this product.

P280 : Wear protective gloves, protective clothing and eye and/or face

protection.



SECTION-16

OTHER INFORMATION

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is the intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for with other materials or in processes other than those specifically described herein.

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