

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



## FUNGIKILL 50

Version 1.0

Revision Date 30.11.2015

Print Date 30.11.2015

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

#### 1.1 Product identifier

Trade name : FUNGIKILL 50

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

Use of the Substance/Mixture : Fungicide

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

Company : Nufarm S.A.S  
28 boulevard Zéphirin Camélinat  
92230 Gennevilliers  
Telephone : +330140855050  
Telefax : +330147922545  
E-mail address : FDS@fr.nufarm.com  
Responsible/issuing person

#### 1.4 Emergency telephone number

Nufarm S.A.S. : +33 1 40 85 51 15  
National emergency telephone number : not available

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (67/548/EEC, 1999/45/EC)

R20: Harmful by inhalation.

R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements

##### Labelling according to EC Directives: 1999/45/EC

Hazard symbols :



Xi - Irritant



N - Dangerous for the environment

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R-phrase(s)	: R20 R41 R43 R50/53	Also harmful by inhalation. Risk of serious damage to eyes. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S 2 S13  S20/21 S24 S26  S37/39  S45  S60  S61	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.  When using do not eat, drink or smoke. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  Wear suitable gloves and eye/face protection.  In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  This material and its container must be disposed of as hazardous waste.  Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Special labelling of certain mixtures : To avoid risks to man and the environment, comply with the instructions for use.

### 2.3 Other hazards

A Chemical Safety Assessment is not required for this mixture.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : wettable powder (WP)

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Copper hydroxide	20427-59-2 243-815-9	T; R23 R22 R41 N; R50/53	Acute Tox. 4; H302 Acute Tox. 2; H330 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	35 W/W

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Metalaxyl	57837-19-1	Xn; R22 R43 R52/53	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Chronic 3; H412	15 W/W
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For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- If inhaled : Move to fresh air.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash immediately affected parts with plenty of water and soap.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water.  
Do NOT induce vomiting.  
If swallowed, seek medical advice immediately and show this container or label.

#### 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

- Treatment : Symptomatic treatment

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray, Sand, Foam, Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion.
- Hazardous combustion : In the event of fire (COx) may be formed.

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### 5.3 Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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## SECTION 6: Accidental release measures

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

Personal precautions : Refer to protective measures listed in section 8. Never return spills in original containers for re-use.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.

Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep out of reach of children. Store in original container. To keep away from moisture. Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feeding stuffs.

### 7.3 Specific end use(s)

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Specific use(s) : none

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

If the sub-section is blank, no value is applicable.

#### 8.2 Exposure controls

##### Personal protective equipment

Eye protection : Safety glasses

##### Hand protection

Material : Nitrile gloves

Skin and body protection : Long sleeved clothing

Respiratory protection : Effective dust mask

##### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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### SECTION 9: Physical and chemical properties

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

Appearance : powder

Colour : greenish

Odour : No data available

Odour Threshold : not determined

pH : Not applicable

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

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Evaporation rate	: Not applicable
Flammability (solid, gas)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: Not applicable
Relative density	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

### 9.2 Other information

none

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition : No decomposition if stored and applied as directed.

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products  
Other information : No decomposition if stored and applied as directed.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Product

Acute oral toxicity : LD50 Rat: > 2.000 mg/kg

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg

Serious eye damage/eye irritation : Species: Rabbit  
Result: Risk of serious damage to eyes.

STOT - single exposure : No data available

STOT - repeated exposure : No data available

##### Components:

##### **Copper hydroxide :**

Acute oral toxicity : LD50 Rat: 489 - 1.280 mg/kg

Acute inhalation toxicity : LC50 Rat, female: 0,5 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg

Skin corrosion/irritation : Species: Rabbit  
Result: Mild skin irritation

Serious eye damage/eye irritation : Species: Rabbit  
Result: Severe eye irritation

Respiratory or skin sensitisation : Species: Guinea pig  
Result: Did not cause sensitization.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

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### Components:

#### **Copper hydroxide :**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,016 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0,038 mg/l  
Exposure time: 48 h
- Toxicity to terrestrial organisms : LC50: 340 mg/kg  
Species: Colinus virginianus (Bobwhite quail)

### 12.2 Persistence and degradability

#### Product:

- Biodegradability : No data available
- Physico-chemical removability : No data available

### 12.3 Bioaccumulative potential

#### Product:

- Bioaccumulation : No data available

### 12.4 Mobility in soil

#### Product:

- Mobility : No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

- Assessment : A Chemical Safety Assessment is not required for this mixture.

### 12.6 Other adverse effects

#### Product:

- Additional ecological information : No other known adverse effects on the environment

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not empty into drains.  
Dispose of in accordance with local regulations.  
Do not dispose of together with household waste.
- Contaminated packaging : Do not re-use empty containers.  
Dispose of empty packages through the specific collection services.



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### SECTION 14: Transport information

#### 14.1 UN number

ADR : 3077  
IMDG : 3077  
IATA : 3077

#### 14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,  
N.O.S. (Copper hydroxide)  
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,  
N.O.S.  
IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,  
N.O.S.

#### 14.3 Transport hazard class

ADR : 9  
IMDG : 9  
IATA : 9

#### 14.4 Packing group

ADR  
Labels : 9  
Tunnel restriction code : (E)

IMDG  
Packaging group : III  
Labels : 9

IATA  
Packaging group : III  
Labels : 9

#### 14.5 Environmental hazards

ADR  
Environmentally hazardous : yes

IMDG  
Marine pollutant : yes

IATA  
Environmentally hazardous : yes

#### 14.6 Special precautions for user

For personal protection see section 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not applicable

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### SECTION 15: Regulatory information

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

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

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### SECTION 16: Other information

#### Full text of R-Phrases

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R41	Risk of serious damage to eyes.

#### Full text of H-Statements

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Further information

Other information : Alterations are indicated in the left hand margin by: II  
This version replaces all previous versions.

Please note the convention used in this document for decimal points and commas for numerical values is as demonstrated by the example: 2,000 is two (to 3 decimal places) and not two thousand, whilst 1.000 is one thousand and not 1 (to 3 decimal places)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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