

# SAFETY DATA SHEET

## FUNDAZOL 50 WP

### 1 SECTION: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

#### 1.1 Product identifiers:

**Trade name: FUNDAZOL 50 WP**

**CAS:** 17804-35-2, 577-11-7

**Active ingredient:** methyl 1-(butylcarbamoyl) benzimidazol-2-ylcarbamate

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

**Identified uses:** fungicide in agricultural production. Exclusively used as a fungicide. The product comes ready to use for the end user form or a form that has to be filled final container.

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

**Company name: AGRO-CHEMIE Kft.**

Address: 1225 Budapest, Bányalég u. 47-59.

Telephone: (+36) 1/9000-800 Fax: (+36) 1/9000-810

Email address: fanny.radics@agrochemie.hu

Emergency telephone: (+36) 1/9000-800 (8-16)

#### 1.4 Emergency information:

**Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)**

1096 Budapest, Nagyvárad tér 2.

Telephone: (36) 1/476-6464, (36) 80/201-199 (0-24)

### 2 SECTION: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

Hazard class and category	Hazard statement(s)
Flam. Sol. 2.	H228 - Flammable solid
Skin Irrit. 2	H315 - Causes skin irritation
Skin Sens. 1	H317 - May cause an allergic skin reaction
Eye Irrit. 2	H319 - Causes serious eye irritation
STOT SE 3	H335 - May cause respiratory irritation
Muta. 1B	H340 - May cause genetic defects
Repr. 1B	H360FD - May damage fertility. May damage the unborn child.
Aquatic Acute 1	H400 - Very toxic to aquatic life
Aquatic Chronic 1	H410 - Very toxic to aquatic life with long lasting effects

#### 2.2 Label elements:

Pictogram: (Labelling according Regulation (EC) No 1272/2008)



**Signal word**

**Danger**

**Hazard statement(s):**

- H228** - Flammable solid.
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- H335** - May cause respiratory irritation.
- H340** - May cause genetic defects.
- H360FD** - May damage fertility. May damage the unborn child.
- H400**- Very toxic to aquatic life
- H410**- Very toxic to aquatic life with long lasting effects

**Precautionary statement(s):**

- P201** - Obtain special instructions before use.
- P210** - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261** - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273** - Avoid release to the environment.
- P280** - Wear protective gloves/protective clothing/eye protection/face protection.
- P302 + P352** - IF ON SKIN: Wash with plenty of soap and water
- P304 + P340** - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338** - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- P308+313** - IF exposed or concerned: Get medical advice/attention.
- P405** - Store locked up.
- P501** - Dispose of contents/container to local regulation.
- SP1**: Do not contaminate waters with pesticides or containers! (Do not clean equipment or its parts in the vicinity of surface waters! Avoid contamination of drains)

2.3 Other hazards

Other crop protection regulation:

It must not be used inside the drinking water protection zone, it can be used on the external protective zone and within the hydrogeological protective zone depending on authorization.

For the sake of human health and prevent threats to the environment, observe the instructions for use.

Read the instructions before use and make sure you understand!

**3 SECTION: COMPOSITION / INFORMATION ON INGREDIENTS**

3.1 Substances:

3.2 Active Ingredient:

Substance	Conc. (%)	Classification	Hazard statement(s)	CAS	EC/ List no.	REACH No.
Benomyl (methyl 1-(butylcarbamoyl) benzimidazol-2-ylcarbamate)	50 %	Flam. Sol. 2 Skin Irrit. 2 Skin Sens. 1 STOT SE 3 Muta. 1B Repr. 1B Aquatic Acute 1 Aquatic Chronic 1	H228 H315 H317 H335 H340 H360FD H400 H410	17804-35-2	241-775-7	-
Wetting agent	<3 %	Skin irrit. 2 Eye Dam. 1 Aquatic Chronic 3	H315 H318 H412	577-11-7	209-406-4	01-2119491296-29-XXXX

The other components of the product are not considered as a hazardous substance under the existing legislation, or their concentration in the formulation does not reach the level above the presence of the hazard classification should be made and should be considered.

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

#### 4 SECTION: FIRSTAID MEASURES

##### 4.1 First aid:

**General information:** Immediately remove contaminated clothing.

**Inhalation:** In case of inhalation remove person to fresh air and keep him quiet and warm. If you feel unwell, seek medical advice.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water. Wash clothing before re-use. Get medical attention if irritation occurs.

**Eye:** Flush eyes promptly with copious flowing water for at least 15 minutes. Get medical attention immediately.

**Ingestion:** If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately. Never give an unconscious person anything to drink.

##### 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:

In case of poisoning, allergic disease, or suspected, the work should be discontinued immediately in half, and after-the-spot first aid medical care institutions need to ensure and show the label to the physician, respectively.

#### 5 SECTION: FIRE-FIGHTING MEASURES

##### 5.1 Extinguishing media:

Carbon dioxide, foam, powder, water spray. Use appropriate extinguishing media to surrounding fire conditions.

Unsuitable extinguishing media: a strong, high-volume water jet; the products pose a threat to the environment, do not dilute them.

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

Flammable solid. Toxic fumes under fire conditions (CO, CO<sub>2</sub>, NO<sub>x</sub>).

##### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and chemical-protective clothing.

##### 5.4 Further information:

In case of fire and/or explosion do not breathe fumes. Enclose the area of fire and keep unprotected persons far away. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## **6 SECTION: ACCIDENTAL RELEASE MEASURES**

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

Protective gloves and respirator. Avoid contact with skin and eyes. Do not breathe dust. Evacuate the area of all non-essential personnel. The usual safety measures for chemical substances must be observed. Remind employees adverse health impacts of products.

### **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.

Spillage: absorb with sand. Prevent contamination of water and sewer system.

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

Vacuum or sweep up the product and place in a labeled, sealable container for subsequent disposal.

Use of protective gear when collecting spilled Fundazol 50 WP, an inert liquid-absorbent material (eg. Sand, vermiculite, earth) and should be covered with absorbent.

### **6.4 Reference to other sections:**

Information concerning the personal protective equipment can be found in section 8.

For disposal see section 13.

## **7 SECTION: HANDLING AND STORAGE**

### **7.1 Precautions for safe handling:**

Avoid breathing vapours. Use with adequate ventilation. Do not smoke, eat or drink during treatment. Handle with care. Stir well before use.

When using do not eat, drink or smoke. Wash hands after handling the product.

It is suggested to wash hands thoroughly in breaks and after worktime. Avoid every spark and fire sources.

Protect from electrostatic filling up.

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

The products were stored in original, unopened packaging, well-ventilated, cool, dry place. It should be stored to prevent access by children. Food, beverages and animal feed must be kept separate. Store in a solid, well-floored warehouse insulation to prevent environmental contamination.

### **7.3 Specific end use(s):**

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

## **8 SECTION: EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1 Control parameters:**

Substances: no data available

The product does not contain component, which has limit value.

### **8.2 Exposure controls:**

Compliance with license conditions the user is not exposed unacceptable.

#### **8.2.1 Appropriate engineering controls:**

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

Technical measures:

- Usual safety measures for chemical substances must be respected.
- Ensure adequate ventilation.
- Safety equipment, providing washing facilities.

Hygiene measures:

- While you work, do not eat, drink or smoke!
- The work breaks and after the work is completed thorough hand washing or washing required.
- Separate working clothes from everyday clothing.

Occupational exposure limits (active substance):

OSHA PEL: 15 mg / m<sup>3</sup> Total dust, 5 mg / m<sup>3</sup> Respirable fraction

ACGIH TLV 10 mg / m<sup>3</sup>

#### 8.2.2 Personal protective equipment:

**Respiratory:** Special protection is not needed for normal use. Necessary protective masks insufficient ventilation.

**Hand:** Protective gloves (EN 374) which are suitable against chemicals (for example nitril rubber, neopren, PVC). Do not use gloves made from poli-vinil-alcohol. If the worktime is repeated, longer or prolonged use protective gloves made for 240 minutes break-through time. If the worktime is less, use gloves made for 60 minutes break-through time.

Always do a risk assessment about the workplace and choose the best equipment for the people.

**Skin:** Completed protective clothes against chemicals. The type of the protective clothing depends on the concentration and quantity at workplaces.

**Eye:** Protective goggles. (EN 166)

#### 8.2.3 Environmental exposure controls:

Do not release into the environment

## 9 SECTION: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	white powder
<b>Odour</b>	character, slightly pungent smell
<b>Odour Threshold</b>	No data available
<b>pH érték</b>	~ 7 (in water based suspension)
<b>Melting point/ freezing point</b>	No data available
<b>Solubility</b>	suspended in water
<b>Partition coefficient: noctanol/water</b>	No data available
<b>Relative density</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Boiling point</b>	No data available
<b>Vapour density</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Flash point</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>Auto-ignition temperature</b>	No data available

### 9.2 Other safety information:

No data available

## 10 SECTION: STABILITY AND REACTIVITY

- 10.1 Reactivity: No data available.
- 10.2 Chemical stability: Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions: Dangerous reactions are not known
- 10.4 Conditions to avoid: Direct sunlight, high temperature, spark, flame.
- 10.5 Incompatible materials: Strong bases, oxidaser agents.
- 10.6 Hazardous decomposition products: n-butyl-izocianate.

## 11 SECTION: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

- Acute toxicity (active ingredient)
  - Oral: LD50: >10000 mg/kg (rat)
  - Skin: LD50: >10000 mg/kg (rat)
  - Inhalation: LC50 (4h): >4,01 mg/dm<sup>3</sup> (rat)
- Chronic toxicity (active ingredient)
  - Rat: NOEL= 15 mg / kg
  - Beagle dog: NOEL = 18,4 mg / kg
  - NOEL= 500 ppm
  - LOEL = 2500 ppm
  - Mouse: NOEL=50 mg / kg
  - LOEL=100 mg / kg
- Skin corrosion/irritation: May cause an allergic skin reaction.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitisation: It irritates the respiratory tract. May cause allergic skin reaction
- Germ cell mutagenicity: May modify genetic substance. It manifested mutagenic effects in vivo examinations
- Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0,1 % identified as probable, possible or confirmed human carcinogen by IARC
- Reproductive toxicity: Terratogen effect was manifested in laboratory experiments. Supposed human reproduction poison. May cause abnormalities of reproduction
- Specific target organ toxicity - single exposure: No data available.
- Specific target organ toxicity - repeated exposure: No data available.
- Aspiration hazard: No data available.

### 11.2 Symptoms and direct effects:

- Skin: It can be harmful if absorbed through skin. It may cause irritation to the skin.
- Ingestion: May be harmful if swallowed.
- Eye: May cause eye irritation.

### 11.3 Additional Information:

RTECS: DD6475000

## 12 SECTION: ECOLOGICAL INFORMATION

### 12.1 Toxicity:

**Fish:** LC50 (96 h) : 0.27 mg benomyl / l (rainbow trout)

**Daphnia:** EC50 (12 h) : 0.64 mg benomyl / l

**Algae Growth:** EC50 (72 h) : 2.0 mg benomyl / l

12.2 Persistence and degradability: Based on the results of tests of biodegradability this product is not readily biodegradable.

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: Low mobility (Koc: 2000-5000)

12.5 Results of PBT and vPvB assessment: No data available

12.6 Other adverse effects: Very toxic to aquatic life.

## 13 SECTION: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Disposal method: open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations.

Empty container: Non-returnable containers which held this material should be cleaned, prior to disposal, by triple-rinsing. Containers which held this material may be cleaned by being triple-rinsed, and recycled, with the rinsate being incinerated.

### 13.2 13.1.1 Waste codes / waste designations according to EWC / AVV:

020108: agrochemical waste containing dangerous substances

200119: pesticides

## 14 SECTION: TRANSPORT INFORMATION

### 14.1 UN No.:

ADR/RID/IMDG/IATA: 1325

### 14.2 UN proper shipping name:

ADR/RID/IMDG/IATA: FLAMMABLE SOLID, ORGANIC, N.O.S. (methyl 1-(butylcarbamoyl)benzimidazol-2-ylcarbamate)

### 14.3 Transport hazard class(es):

ADR/RID/IMDG/IATA: 4.1

### 14.4 Packaging group:

ADR/RID/IMDG/IATA: III.

### 14.5 Environmental hazards:

ADR/RID/IMDG/IATA: dangerous for the environment, marine pollutant

### 14.6 Special precautions for user:

No data available

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not evaluated

## 15 SECTION: REGULATORY INFORMATION

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

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

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

The use of this chemical entails the obligation to "Risk Assessment" by the employer under the provisions of the workers, these chemicals should not be subjected to health checks to evaluate the results of risks shows that the relation of the type and quantity of the chemical substance mode and contact with the exposure as well.

Only the "moderate risk" to the health and safety of workers and the measures provided for in that regulation is sufficient to reduce the risk.

Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheets.

15.1 Chemical Safety Assessment: For this product a chemical safety assessment was not carried out

## 16 SECTION: OTHER INFORMATION

### General information

Section 1-15. is based on the present state of our knowledge and only serves to showcase the product to the health, safety and environmental requirements. The safety data sheet refers to the product as supplied.

### Sources of data used to compile the safety data sheet:

The test results of the mixture

Safety Data Sheet of the mixture components

### Classification of the mixture was done according to the No. 1272/2008/EC regulation:

### Based on the measured values of the toxicological and ecotoxicological properties of the mixture

Flam. Sol. 2.	H 228
Skin Irrit. 2	H 315
Skin Sens. 1	H 317
Eye Irrit 2.	H 319
STOT SE 3	H 335
Muta. 1B	H 340
Repr. 1B	H 360FD
Aquatic Acute 1	H 400
Aquatic Chronic 1	H 410

**Below are the H-phrases that can be found in the 3rd section of the safety data sheet, as well as the full texture of the hazard classes and categories.**

### Hazard statements

H 228	Flammable solid
H 315	Causes skin irritation
H 317	May cause an allergic skin reaction
H 318	Causes serious eye damage
H 319	Causes serious eye irritation
H 335	May cause respiratory irritation
H 340	May cause genetic defects
H 360FD	May damage fertility. May damage the unborn child.
H 400	Very toxic aquatic life
H 410	Very toxic aquatic life with long lasting effects



### **Hazard Class and Category**

Flam. Sol 2	Flammable solid Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
Eye Dam. 1	Serious Eye Damage Category 1
Eye Irrit. 2	Serious eye irritation Category 2
STOT SE 3	Specific target organ toxicity - single exposure Category 3
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 1B	Reproductive toxicity Category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic category 1

### **Legal notice**

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.

### **Data sheet history**

This Safety Data Sheet is compiled using the manufacturer's data sheet issued 12/09/2014

#### ***Review:***

Chapter	Reason of the change	Date	Version
2, 14	Change the candidate sections of the safety data sheet in accordance with the applicable legal regulations	25-04-2019	7.
1	Information changes in Section 1	31-05-2021	8.