

## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

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

#### 1.1 Product identifier

Trade name : MANDATORIO F  
Design code : A14028B  
Product Registration Number : 1308

#### 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 : Syngenta Crop Protection - Soluções para a Agricultura, Lda  
Avenida D. João II, Edifício Adamastor, Torre B, nº 9-I, 13º  
 piso  
1990-079 Lisbon  
Portugal

Telephone : +351 21 7943200

Telefax : -

E-mail address of person responsible for the SDS : fichasdeseguranca@syngenta.com

#### 1.4 Emergency telephone number

Emergency telephone number : Serviço de Reposta de Emergência da Syngenta: +351 21 3524765  
(24h) Centro de Informação Antivenenos (CIAV): 800 250 250 (24h)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H332 Harmful if inhaled.  
H351 Suspected of causing cancer.  
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : For professional users only.

SP1 Do not contaminate water with the product or its container.

SPe 3 To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies (see label for details)

When entering a treated area, for 24 hours after application, to check the maturity of the grape, workers must wear long-sleeved shirt and pants, to harvest the grapes must wear long-sleeved shirts, pants and gloves .

SPoPT4: When applying a product, worker should wear protective gloves and protective clothing during spray preparation and application.

SPoPT5: Prevent access by workers and outsiders to the treated areas until the spray has dried.

SPoPT6: After treatment wash the protective material thoroughly, taking special care to wash the gloves inside.

To see more details about environmental risk management and manipulation risk management, see the label.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

#### Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

- P261 Avoid breathing dust.
- P261 Avoid breathing mist.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/ protective clothing.

### Response:

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P312 Call a POISON CENTER/ doctor if you feel unwell.
- P391 Collect spillage.

### Storage:

- P402 Store in a dry place.
- P405 Store locked up.
- P410 + P403 Protect from sunlight. Store in a well-ventilated place.

### Disposal:

- P501 Dispose of contents/container to a collection point for dangerous and special waste.

### Hazardous components which must be listed on the label:

folpet (ISO)

### Additional Labelling

- EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
- EUH208 Contains folpet (ISO). May produce an allergic reaction.
- EUH210 Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

May form combustible dust concentrations in air.

## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
folpet (ISO)	133-07-3 205-088-6 613-045-00-1	Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Sens. 1; H317 Carc. 2; H351 Aquatic Acute 1; H400  M-Factor (Acute aquatic toxicity): 10	>= 30 - < 50
mandipropamid (ISO)	374726-62-2  616-213-00-2	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 2,5 - < 10
Substances with a workplace exposure limit :			
kaolin	1332-58-7 296-473-8		>= 20 - < 30

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
- If inhaled : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.

## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Nonspecific  
No symptoms known or expected.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : There is no specific antidote available.  
Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Alcohol-resistant foam  
or  
Water spray
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 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 (see section 10).  
Exposure to decomposition products may be a hazard to health.

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
- Further information : Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

### SECTION 6: Accidental release measures

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

Personal precautions : Refer to protective measures listed in sections 7 and 8.  
Avoid dust formation.

#### 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 material for containment and cleaning up

Methods for cleaning up : Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).  
Do not create a powder cloud by using a brush or compressed air.  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

#### 6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion.  
Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material.  
Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

This material can become readily charged in most operations.

Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
For personal protection see section 8.

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

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Further information on storage stability : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

temperatures.

### 7.3 Specific end use(s)

Specific use(s) : For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
folpet (ISO)	133-07-3	TWA	0,4 mg/m <sup>3</sup>	Syngenta
kaolin	1332-58-7	VLE-MP (Respirable fraction)	2 mg/m <sup>3</sup>	PT OEL
	Further information: Substances that are not classified as carcinogenic for humans.			
		TWA (Respirable dust)	0,1 mg/m <sup>3</sup>	2004/37/EC
	Further information: Carcinogens or mutagens			
mandipropamid (ISO)	374726-62-2	TWA	5 mg/m <sup>3</sup>	Syngenta

### 8.2 Exposure controls

#### Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.  
Where necessary, seek additional occupational hygiene advice.

#### Personal protective equipment

Eye protection : No special protective equipment required.  
Hand protection

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0,5 mm

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

- danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
- Skin and body protection** : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Remove and wash contaminated clothing before re-use.  
Wear as appropriate:  
Dust impervious protective suit
- Respiratory protection** : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Suitable respiratory equipment:  
Respirator with a particle filter (EN 143)  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Filter type** : Particulates type (P)
- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.

### Environmental exposure controls

- Water** : 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

- Physical state : granules  
Odour : sweetish  
Odour Threshold : No data available
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flammability : May form combustible dust concentrations in air.
- Upper explosion limit / Upper flammability limit : No data available



## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

Lower explosion limit / Lower flammability limit : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 5 - 9  
Concentration: 1 % w/v

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : No data available

Solubility(ies)

    Water solubility : Miscible

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Density : No data available

Bulk density : 0,543 g/ml

Relative vapour density : No data available

Particle characteristics

    Particle size : No data available

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammable solids

    Burning number : 1 (20 °C)

Evaporation rate : No data available

Minimum ignition energy : > 10 J

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None reasonably foreseeable.

### 10.2 Chemical stability

Stable under normal conditions.

## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

### 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 : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Ingestion  
Inhalation  
Skin contact  
Eye contact

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 4,72 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

##### Components:

##### **folpet (ISO):**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): 1,89 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

Version  
1.0

Revision Date:  
25.01.2022

SDS Number:  
S00054914439

This version replaces all previous versions.

### **mandipropamid (ISO):**

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,19 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5.050 mg/kg

### **Skin corrosion/irritation**

#### **Product:**

Species : Rabbit  
Result : No skin irritation

#### **Components:**

#### **folpet (ISO):**

Species : Rabbit  
Result : No skin irritation

#### **mandipropamid (ISO):**

Species : Rabbit  
Result : No skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Species : Rabbit  
Result : No eye irritation

#### **Components:**

#### **folpet (ISO):**

Species : Rabbit  
Result : Eye irritation

#### **mandipropamid (ISO):**

Species : Rabbit  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Product:**

Test Type : Buehler Test  
Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

Version  
1.0

Revision Date:  
25.01.2022

SDS Number:  
S00054914439

This version replaces all previous versions.

### Components:

#### **folpet (ISO):**

Species : Guinea pig  
Result : May cause sensitisation by skin contact.

#### **mandipropamid (ISO):**

Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.

### **Germ cell mutagenicity**

#### Components:

#### **folpet (ISO):**

Germ cell mutagenicity-  
Assessment : Animal testing did not show any mutagenic effects.

#### **mandipropamid (ISO):**

Germ cell mutagenicity-  
Assessment : Animal testing did not show any mutagenic effects.

### **Carcinogenicity**

#### Components:

#### **folpet (ISO):**

Carcinogenicity -  
Assessment : Limited evidence of carcinogenicity in animal studies

#### **mandipropamid (ISO):**

Carcinogenicity -  
Assessment : No evidence of carcinogenicity in animal studies.

### **Reproductive toxicity**

#### Components:

#### **folpet (ISO):**

Reproductive toxicity -  
Assessment : No toxicity to reproduction

#### **mandipropamid (ISO):**

Reproductive toxicity -  
Assessment : No toxicity to reproduction

### **Repeated dose toxicity**

#### Components:

#### **mandipropamid (ISO):**

Remarks : No adverse effect has been observed in chronic toxicity tests.

## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

### 11.2 Information on other hazards

#### Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,53 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 5,1 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 20 mg/l  
Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 2,5 mg/l  
End point: Growth rate  
Exposure time: 96 h

**Components:**

**folpet (ISO):**

Toxicity to fish : LC50 (Salmo trutta (brown trout)): 0,098 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,68 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

**mandipropamid (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Crassostrea virginica (eastern oyster)): 0,97 mg/l

## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

aquatic invertebrates	:	Exposure time: 96 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 2,5 mg/l Exposure time: 72 h  NOEC (Raphidocelis subcapitata (freshwater green alga)): 1,3 mg/l End point: Growth rate Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,5 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,076 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	1
<b>Ecotoxicology Assessment</b>		
Acute aquatic toxicity	:	Very toxic to aquatic life.

### 12.2 Persistence and degradability

#### Components:

##### **folpet (ISO):**

Biodegradability	:	Result: Readily biodegradable.
Stability in water	:	Degradation half life: < 0,05 d Remarks: Product is not persistent.

##### **mandipropamid (ISO):**

Biodegradability	:	Result: Not readily biodegradable.
Stability in water	:	Degradation half life: 4,5 - 26 d Remarks: Product is not persistent.

### 12.3 Bioaccumulative potential

#### Components:

##### **folpet (ISO):**

Bioaccumulation	:	Remarks: Does not bioaccumulate.
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## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

Partition coefficient: n-octanol/water : log Pow: 3,017 (20 °C)

### **mandipropamid (ISO):**

Bioaccumulation : Remarks: Low bioaccumulation potential.

Partition coefficient: n-octanol/water : log Pow: 3,2 (25 °C)

### 12.4 Mobility in soil

#### Components:

##### **folpet (ISO):**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 4,3 d  
Percentage dissipation: 50% (DT50)  
Remarks: Product is not persistent.

##### **mandipropamid (ISO):**

Distribution among environmental compartments : Remarks: Low mobility in soil.

Stability in soil : Dissipation time: 26 - 178 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Components:

##### **folpet (ISO):**

Assessment : This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

##### **mandipropamid (ISO):**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components

## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging : Empty packagings shall be delivered by the end user in reception centers and on the dates that are shown when purchasing the product, once completed the procedures referred to in article 5 of Decree-Law No. 187/2006 of 19 September, with the exception of packaging referred to in point b) of paragraph 1 of that article.  
Surplus waste must be sent for recovery or disposal by their holders through the use of systems for the management of hazardous waste properly licensed.
- Waste Code : uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances
- 

## SECTION 14: Transport information

### 14.1 UN number or ID number

- ADR : UN 3077  
RID : UN 3077  
IMDG : UN 3077  
IATA : UN 3077

### 14.2 UN proper shipping name

- ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FOLPET)  
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

---

**IMDG** : (FOLPET)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(FOLPET)

**IATA** : Environmentally hazardous substance, solid, n.o.s.  
(FOLPET)

### 14.3 Transport hazard class(es)

**ADR** : 9

**RID** : 9

**IMDG** : 9

**IATA** : 9

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**RID**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous

**IATA (Passenger)**  
Packing instruction : 956  
(passenger aircraft)  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : yes

**RID**  
Environmentally hazardous : yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

Remarks : Not self-heating if the product is to be transported in packagings with a volume not more than 3000 litres.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

### Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Decree-Law No. 94/98 and its amendments, to be repealed by EC regulation 1107/2009 (placing on the market of plant protection products)

Law No. 26/2013 of 11 April (regulates the activities of distribution, sale and use of plant protection products)

Decree-Law No. 187/2006 of 19 September (waste management plant protection)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

Version 1.0      Revision Date: 25.01.2022      SDS Number: S00054914439      This version replaces all previous versions.

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Decree-Law No. 254/2007 [Directive 96/82 / EC] (accident prevention - "Seveso")  
Law No. 7/2009 [Directive 94/33/EC, and others] (code work - on the protection of young people at work)  
Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.  
Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

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## SECTION 16: Other information

### Full text of H-Statements

H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H351 : Suspected of causing cancer.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Carc. : Carcinogenicity  
Eye Irrit. : Eye irritation  
Skin Sens. : Skin sensitisation  
2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work  
PT OEL : Portugal. Security and Health at the Workplace - Occupational exposure limits of chemical agents  
2004/37/EC / TWA : Long term exposure limit  
PT OEL / VLE-MP : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MANDATORIO F

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International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Acute Tox. 4	H332
Carc. 2	H351
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Calculation method
Calculation method
Based on product data or assessment

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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