

# ALTERNET

An emulsifiable concentrate containing 250 g/L (23.6% w/w) difenoconazole.

ALTERNET is a fungicide for treatment against Alternaria on potatoes.

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ALTERNET PCS 05840

An emulsifiable concentrate containing 250 g/L (23.6% w/w) difenoconazole;  
Contains N,N-dimethyloctanamide; N,N-dimethyldecanamide; Alkylbenzenesulphonates; Butan-1-ol  
Professional use only.

**Hazard statement**

May be fatal if swallowed and enters airways  
Causes skin irritation  
Causes serious eye damage  
May cause drowsiness or dizziness  
Very toxic to aquatic life with long lasting effects  
To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statement:**

Keep out of reach of children.  
Read label before use.  
Avoid breathing spray.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN: Wash with plenty of water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Collect spillage.  
Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

DANGER



Marketing company:

**BelCrop**

Belcrop NV, Tiensestraat 300,  
3400 Landen, Belgium,  
tel +32 11 59 83 60,  
fax +32 11 59 83 61  
www.belcrop.be  
Emergency 24h number:  
+32 11 69 79 80

PCS 05840

batch number/ Production date: see packaging // PROTECT FROM FROST.  
Shake well before use. See attached booklet for 'Directions for use'. Do not contaminate water with the product or its container  
(Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads)

Registration holder: Certiplant NV, Lichtenberglaan 2045, 3800 Sint-Truiden, Belgium, tel +32 11 88 03 92, fax +32 11 70 74 84

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**ALTERNET**

This Booklet is part of the approved Product label.

**IMPORTANT INFORMATION****FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE**

Crop	Max individual dose (L/ha)	Max number of applications (per crop)	Max. total dose per crop (l/ha)	Latest time of application	Aquatic buffer zone distance (metres)
Potatoes	0.5 L/ha	4	2.0	14 days before harvest	6

Specific diseases controlled: *Alternaria solani*

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

**DIRECTIONS FOR USE**

**IMPORTANT:** This information is approved as part of the product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

**CROP SPECIFIC INFORMATION**

THE PRODUCT controls *Alternaria* spp. in potatoes. Up to 4 applications can be made at a 7-14 day interval at a dose of 0.5 L/ha in 200 – 350 L water/ha. First application should be at first signs of disease or following local warnings. Respect a pre-harvest interval of 14 days.

**METHOD OF APPLICATION**

Only apply using tractor mounted/trailed sprayer.

**MIXING AND SPRAYING**

Make sure the sprayer is set to give an even application at the correct volume.

Fill the spray tank with half the required volume of clean water and start agitation. Add the required amount of the product and continue agitation while adding the rest of the water. Agitate the mixture thoroughly before use and continue agitation during spraying. Thoroughly wash all spray equipment with water immediately after use.

**SAFETY PRECAUTIONS****Operator Protection**

- WEAR SUITABLE PROTECTIVE GLOVES, SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
- WEAR SUITABLE PROTECTIVE GLOVES when spraying.
- WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.
- WHEN USING, DO NOT EAT, DRINK OR SMOKE.
- IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.

**Environmental Protection**

- Do not contaminate water with the product or its container.
- Do not clean application equipment near surface water.
- Avoid contamination via drains from farmyards and roads.
- To protect aquatic organisms respect an unsprayed buffer zone of 6m to surface water bodies.

**Storage and disposal**

- KEEP OUT OF THE REACH OF CHILDREN.
- KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
- DO NOT RE-USE CONTAINER for any purpose.
- Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as nonhazardous waste

## COMPANY ADVISORY INFORMATION

This section is not part of the Product Label

### CONDITIONS OF SUPPLY

The manufacturer/seller/registration holder only guarantees that the supplied product complies with the quality standards in force. The manufacturer /seller / registration holder cannot be held liable neither for results nor for any damage due to the storage, transport or application of the product.

## MATERIAL SAFETY DATA SHEET

Version: IE0.0

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

#### 1.1 Product identifier

Name of the substance: Alternet  
Code: PCS 05840  
Formulation type: EC (emulsifiable concentrate)  
Concentration: 250 g/L (23.6% w/w)  
Active substance: Difenconazole  
IUPAC-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  
Identification number: CAS 119446-68-3  
RRN: No registration number is available for this substance, in accordance with the provisions of Article 15 of Regulation (EC) No 1907/2006

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
identified uses: fungicide for professional use.

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

**BelCrop**

Belcrop NV  
Tiensestraat 300  
3400 Landen  
Belgium

Tel.: +32 11 59 83 60  
Fax: +32 11 59 83 61  
Email: info@belcrop.be

#### 1.4 Emergency telephone number

Please call the local emergency number  
Emergency number in Belgium (24h/24, 7d/7): +32 11 69 79 80

### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**  
Asp. Tox. 1, Eye Dam. 1, Skin Irr. 2, STOT SE 3, Aquatic Chronic 1  
H304, H315, H318, H336, H410

For full text of Hazard-statements see section 16.

#### 2.2 Label elements

**Label in accordance with Regulation (EC) No 1272/2008**

Hazard pictogram  
GHS05, GHS07, GHS08, GHS09 :



Signal word  
Danger

**hazard statement**

H304: May be fatal if swallowed and enters airways.  
 H315: Causes skin irritation.  
 H318: Causes serious eye damage.  
 H336: May cause drowsiness or dizziness.  
 H410: Very toxic to aquatic life with long lasting effects.  
 EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

**precautionary statement**

P102 Keep out of reach of children  
 P103 Read label before use  
 P261: Avoid breathing spray.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P302 + P352: IF ON SKIN: Wash with plenty of water/...  
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P391: Collect spillage.  
 P501: Dispose of contents/container in accordance with local/national regulation.

**2.3 Other hazards**

The active substance does not fulfill the criteria of a persistent, bioaccumulative and toxic (PBT) substance, nor of a very persistent and very bioaccumulative (vPvB) substance, as outlined in Annex XIII of Regulation (EC) No 1907/2006.

**Section 3 : Composition/information on ingredients**

**3.2 Mixtures**

Name	Identification number	RRN	% (% by weight)	Classification according to Regulation (EC) No 1272/2008
Difenoconazole	CAS 119446-68-3	not available	250 g/L (23.6% w/w)	Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1 H302, H400, H410
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	-	01-2119560592-37	<10%	Skin Irr. 2, Eye Dam. 1 H315, H318
Butan-1-ol	71-36-3	not available	<5%w/w	Flam. Liq. 3, Acute Tox. 4, Skin Irr. 2, Eye Dam. 1 H226, H302, H315, H318, H335, H336
N,N-dimethyloctanamide	CAS 1118-92-9	not available	<10%w/w	Acute Tox. 4, Skin Irr. 2, Eye Dam. 1 H302, H312, H315, H318
N,N-dimethyldodecan-1-amide	CAS 14433-76-2	not available	<10%w/w	Skin Irr. 2, Eye Irr. 2, Aquatic Chronic 2 H315, H319, H411
Hydrocarbons, C10, aromatics, <1% naphthalene	EC 918-811-1	01-2119463583-34	<50%w/w	Asp. Tox. 1, Aquatic Chronic 2, STOT SE 3 H304, H411, H336, EUH 066

For full text of Hazard-statements see section 16.

#### Section 4: First aid measures

##### 4.1 Description of first aid measures

If INHALED:

Fresh air, rest. Artificial respiration may be required. Call the emergency service, hospitalisation is recommended. Show the label or packaging.

In case of contact with SKIN:

Rinse the skin with plenty of water or take a shower for 15 minutes. Meanwhile, remove contaminated clothing and shoes. In case of symptoms, seek medical attention and show the label or packaging.

In case of contact with EYES:

Rinse thoroughly with water for 10 minutes. Rinse AWAY from the non-affected eye. If wearing contact lenses: if easy to remove, first remove the lenses, then rinse. Consult a doctor and show the label or packaging.

If SWALLOWED:

Rinse the mouth. Do not induce vomiting. Call the emergency service, hospitalisation is recommended. Show the label or packaging.

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

No data available in humans.

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

Notes to physician:

Prehospital: symptomatic treatment.

Contact the local poison center (see section 1.4) for further treatment in the hospital.

#### Section 5 : Fire fighting measures

##### 5.1 Extinguishing media

Suitable extinguishing media: chemical powder, water spray, CO<sub>2</sub>, polyvalent foam.

Unsuitable extinguishing media: Water with full jet

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

The product contains flammable organic substances. In case of a fire, a thick black smoke containing hazardous products of combustion will be generated (see section 10).

Exposure to decomposition products can be harmful to one's health.

##### 5.3 Advice for fire-fighters

Self-contained breathing apparatus and full protective clothing (boots, overall, gloves, eye and face protection). Avoid discharge of extinguish water into sewer or watercourse.

#### Section 6 : Accidental release measures

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

See section 8

##### 6.2 Environmental precautions

Prevent the product from entering into soil, sewers, surface or ground water. If necessary, isolate the contaminated area. First remove spillage and accidental leaks (see section 6.3). Then rinse the contaminated area with water. Do not allow residues to enter into sewer and surface water. Dispose contaminated water according to local legislation. Inform the authorities if product pollutes the environment.

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

###### 6.3.1 Containment of a spill

If applicable, cover spillage with absorbing material (sand, clay, diatomite, universal binders, absorbing grain).

###### 6.3.2 Clean-up of a spill

Spills shall be contained by means of absorbent material and a shovel. The collected products shall be disposed of in re-usable barrels or barrels for waste removal. As soon as the substance has been removed, thoroughly clean up the floor and any object that has been in contact with the substance in compliance with the environmental prescriptions.

###### 6.3.3 Additional information

No additional information

#### 6.4 Reference to other sections

See section 1 contact information  
See section 7 for handling and storage  
See section 8 for exposure controls/ personal protection  
See section 13 for disposal considerations

### Section 7 : Handling and storage

#### 7.1 Precautions for safe handling

##### 7.1.1 Protective measurements

Work under local exhaust/ventilation. Observe normal industrial and hygiene standards. Wear personnel protective clothing. Avoid contact with skin and eyes. Avoid forming of aerosol or dust. Wash hands after use. Do not discharge product into sewer. Keep away from source of ignition.

##### 7.1.2 Advice on general occupational hygiene

When using, do not eat, drink or smoke. Clean used material. Wash hands after each use.  
Wash contaminated clothing after use. Remove contaminated clothing and protective equipment before entering eating areas

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

Store in closed packaging in a dry, well ventilated area. Store in original packaging. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. See also section 10.

#### 7.3 Specific end use(s)

See section 1.2.

### Section 8 : Exposure controls/personal protection

#### 8.1 Control parameters

##### 8.1.1 Occupational exposure limit values

Butan-1-ol: 20 ppm

##### 8.1.2 Information on currently recommended monitoring procedures

Not known

#### 8.2 Exposure controls

##### 8.2.1 Appropriate engineering controls

See section 7 and 8.1.1.

##### 8.2.2 Individual protection measures, such as personal protective equipment

###### 8.2.2.1 Eye / face protection

Wear safety goggles, with side-protection.

###### 8.2.2.2 Skin protection

###### 8.2.2.2.1 Hand protection

Wear chemical protective gloves (EN374).

###### 8.2.2.2.2 other

Wear suitable work clothes. (Coverall with full body protection)

###### 8.2.2.3 Respiratory protection

Use always in a well ventilated area.

Only if applicable:

Gas, vapours: gas filter: semi-facial mask with ABEK filter.

Dust, mist, fumes: dust mask : P2FFP2

##### 8.2.3 Environmental exposure controls

See section 6: Accidental release measures

See section 7: storage and handling

See section 13: Disposal considerations

### Section 9 : Physical and chemical properties

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

	Endpoint (unit)
a) Appearance	brown liquid
b) Odour	typical odour
c) Odour threshold	no data available
d) pH	6.5-7.5
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	61°C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	not explosive
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	0.989 g/ml (20°C)
n) Solubility(ies)	no data available
o) Partition coefficient: n-octanol/water	log Pow = 4.36 (active substance data, 25°C, pH 8)
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	not explosive
t) Oxidising properties.	not oxidizing

**9.2 Other information**

No additional information

**Section 10 : Stability and reactivity****10.1 Reactivity**

Stable under normal conditions of handling and storage.

**10.2 Chemical stability**

Stable under normal environmental temperatures (between 0°C and 40°C). See also section 7.2.

**10.3 Possibility of hazardous reactions**

No specific data known.

**10.4 Conditions to avoid**

No specific data known.

**10.5 Incompatible materials**

No specific data known.

**10.6 Hazardous decomposition products**

Combustion or thermal decomposition produces toxic and irritating vapours. See section 5.2

**Section 11 : Toxicological information****11.1 Information on toxicological effects**

	endpoint	duration	species	tested on
a) acute toxicity	oral: LD50 = 1453 mg a.s./kg bw	single dose	rat	active substance (technical)
	dermal: LD50 > 2000 mg a.s./kg bw	24h	rabbit	active substance (technical)
	inhalation: LC50 > 3.3 mg a.s./L	4h exposure, nose only, highest technically achievable concentration	rat	active substance (technical)
b) skin corrosion/irritation	non-irritant	4h	rabbit	active substance (technical)

c) serious eye damage/irritation	non-irritant	96h	rabbit	active substance (technical)
d) respiratory or skin sensitization	non-sensitiser (modified Buehler test)	6h	guinea pig	active substance (technical)
e) germ cell mutagenicity	Equivocal increases in chromosomal aberrations in CHO cells in vitro. Difenoconazole is unlikely to be genotoxic in vivo.	3h	Chinese hamster ovary cells	active substance (technical)
f) carcinogenicity	Liver adenomas/carcinomas in mice, only at high doses where toxicity was observed. Difenoconazole is considered unlikely to pose a carcinogenic risk to humans.		mouse	active substance (technical)
g) reproductive toxicity	- Parental: reduced body weight (gain) - Offspring: reduced body weight trough lactation - Reproductive: no adverse effects	- continuous exposure for 2 parental generations - days 7-19 of gestation - days 6-15 of gestation	- rat - rabbit - rat	active substance (technical)
h) STOT-single exposure	no data available			
i) STOT-repeated exposure	no data available			
j) aspiration hazard	no data available			

## Section 12 : Ecological information

### 12.1 Toxicity

	endpoint	duration	species	tested on
Acute toxicity fish	EC50 = 0,65 mg a.i./L	96h	Oncorhynchus mykiss	formulated product
Acute toxicity invertebrates	EC50 = 0,62 mg a.i./L	48h	Daphnia magna	formulated product
Algae	EVC50 = 1,01 mg a.i./L	72h	Scenedesmus subspicatus	formulated product

### 12.2 Persistence and degradability

DT50 (soil) = 130 days  
DT50 (water/sediment) = 315.5 days  
(active substance data)

### 12.3 Bioaccumulative potential

log Pow = 4.36 (active substance data, 25°C, pH 8)  
bioconcentration factor (BCF) = 330 (Some potential for bioaccumulation, but low risk for secondary poisoning) (active substance data)

### 12.4 Mobility in soil

Koc = 3759.4 mL/g (immobile to medium mobile) (active substance data)

### 12.5 Results of PBT and vPvB assessment

The active substance does not fulfill the criteria of a persistent, bioaccumulative and toxic (PBT) substance, nor of a very persistent and very bioaccumulative (vPvB) substance, as outlined in Annex XIII of Regulation (EC) No 1907/2006.

### 12.6 Other adverse effects

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## Section 13 : Disposal considerations

### 13.1 Waste treatment methods

Product waste: prevent spreading. To be disposed of in compliance with local and national prescriptions.



Polluted packages: Do not re-use empty packages. If required, rinse 3 times. To be disposed of in compliance with local and national prescriptions.

Section 14: Transport information			
	ADR classification	IMDG classification	IATA classification
14.1 UN number	3082	3082	3082
14.2 UN proper shipping name	environmentally hazardous substance, liquid, N.O.S. (difenoconazole)		
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	yes	yes	yes
14.6 Special precautions for user	Symbols:   Tunnel code: E	Symbols:  	Symbols:  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable for road transport	Not applicable (not transported as bulk)	Not applicable for air transport

Section 15: Regulatory information	
15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
SEVESO:	- SEVESO category: E1
15.2	<b>Chemical safety assessment</b>
	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information	
<b>Relevant H-statements</b>	
H226: Flammable liquid and vapour. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects. EUH 066: Repeated exposure may cause skin dryness or cracking. EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.	
<b>List of abbreviations and acronyms</b>	
RRN: REACH registration number	
<b>Changes to the previous version of safety data sheet.</b>	

First version

**The information presented in this SDS is based on the current knowledge of the product and is derived from the existing literature. It is given in good faith and it only illustrates the aspect of security. This SDS is in addition with our information relating to the use of the formulation but in no case replaces it.**

**The users must be aware of the necessary precautions to take at the time of use or handling of this product. Consequently, the company can in, no case, be held responsible for damage which results, directly or indirectly, from the use of these data.**

*This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008, Regulation (EU) No 453/2010 and Regulation (EU) No 2015/830.*

SPECIMEN -  
2017 TO DATE