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Alternet

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

1.1 Product identifier

Trade name : Alternet

Authorisation number : PCS 05840

Active substance : Difenoconazole (25,7 %)

EC No.: 601-613-1 CAS No.: 119446-68-3

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

Substance No. : 30000001815

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

Use of the : Fungicide for professional use.

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Address : Belcrop BV

Tiensestraat 300 3400 Landen Belgium

Telephone : +32 11 59 83 60
Telefax : +32 11 59 83 61
E-mail address Contact Point : info@belcrop.be

1.4 Emergency telephone number

National Poisons Information Centre (Beaumont Hospital): 01 809 2166 (8 AM - 10 PM)

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 (Regulation (EC) No. 1272/2008)

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters

airways.

Skin corrosion/irritation, Category 2 H315: Causes skin irritation.

Serious eye damage/eye irritation, Category 1
H318: Causes serious eye damage.

Specific target organ toxicity - single exposure, H336: May cause drowsiness or dizziness.

Category 3



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Carcinogenicity, Category 2

Hazardous to the aquatic environment - Acute hazard, Category 1

H351: Suspected of causing cancer. H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (Regulation (EC) No. 1272/2008)

Hazard pictograms









Signal word Danger

Hazard statements H304 May be fatal if swallowed and enters

airways.

H315 Causes skin irritation. H318 Causes serious eve damage. H336

May cause drowsiness or dizziness. H410 Very toxic to aquatic life with long lasting

effects.

EUH401 To avoid risks to human health and the

environment, comply with the instructions

for use.

Precautionary statements 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/ eye protection/ face

protection.

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/doctor.

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 to an

approved incineration plant.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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.



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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.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

Hazardous components

Chemical name	CAS No. EC No. Index No. Registration No.	Classification (Regulation (EC) No. 1272/2008)	Conc. [%]
		M-Factor/SCL/ATE	
Difenoconazole	119446-68-3 601-613-1 -	Acute Tox. 4; H302 Eye Irrit. 2; H319 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	25,7
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
		Acute oral toxicity: 1.450 mg/kg	
Hydrocarbons, C10, aromatics, <1% naphthalene	- 918-811-1 - 01-2119463583-34	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 STOT SE 3; H336, EUH066	< 50
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	90194-26-6 290-635-1	Skin Irrit. 2; H315 Eye Dam. 1; H318	< 10
	01-2119560592-37		
N,N-dimethyloctanamide	1118-92-9 214-272-5 -	Skin Irrit. 2; H315 Eye Dam. 1; H318	< 10
N,N-dimethyldecan-1-amide	14433-76-2 238-405-1 -	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Chronic 3; H412	< 10
N-butanol	71-36-3 200-751-6 603-004-00-6	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335, H336	< 5
Substances with a workplace e	exposure limit	•	
N-butanol	71-36-3 200-751-6 603-004-00-6	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335, H336	< 5

For the full text of the hazard statements mentioned in this Section, see Section 16.



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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : If medical advice is needed, have product container or label at

hand.

If inhaled: : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

In case of skin contact: : Wash off immediately with plenty of water for at least 15

minutes.

Remove contaminated clothing. If irritation develops, get

medical attention.

Wash contaminated clothing before reuse.

In case of eye contact: : In case of eye contact, remove contact lens and rinse

immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Protect unharmed eye. Seek medical advice.

If swallowed: : If swallowed, call a poisons information service or doctor

immediately. Rinse mouth.

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 : For specialist advice physicians should contact the poisons

information service.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water

Carbon dioxide (CO2)

Dry powder Polyvalent foam

Unsuitable extinguishing

media

: Water spray jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

: Fire will produce dense black smoke containing hazardous

combustion products (see Section 10).

Exposure to decomposition products may be a hazard to



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health.

5.3 Advice for firefighters

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Other information : Standard procedure for chemical fires.

In the event of fire and/or explosion do not breathe fumes. Prevent fire extinguishing water from contaminating surface

water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

(dust).

Ensure adequate ventilation.

Refer to protective measures listed in Section 7 and 8.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage. Prevent product from entering drains.

Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.

Shovel into suitable container for disposal.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

6.4 Reference to other sections

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

Advice on safe handling : Use only in area provided with appropriate exhaust ventilation.

Handle with care.

Avoid formation of aerosol.

Avoid inhalation, ingestion and contact with skin and eyes.

Wear personal protective equipment.



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For personal protection see Section 8.

Take care to avoid waste and spillage when weighing, loading

and mixing the product.

Advice on protection against

fire and explosion

: Use explosion-proof equipment.

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than

the occupational exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Store in original container.

Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component	CAS No.	Form of exposure	Value type	Control parameters	Basis
N-butanol	71-36-3	Not specified	TWA	20 ppm	IE OEL

8.2 Exposure controls

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Recommended Filter type:

ABEK

: In the case of dust or aerosol formation use respirator with an

approved filter.

Recommended Filter type:

P2FFP2

Hand protection : Protective gloves complying with EN 374.

Eye protection : Safety glasses with side-shields conforming to EN 166.

Skin and body protection : Long-sleeved clothing.



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Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to

the specific workplace.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Store personal protection equipment in a clean location away

from the work area.

Remove and wash contaminated clothing and gloves,

including the inside, before re-use. Keep away from food and drink.

Wash hands before eating, drinking, or smoking.

Protective measures : Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing.

Always have on hand a first-aid kit, together with proper

instructions.

Environmental exposure controls

General advice : Discharge into the environment must be avoided.

Prevent further leakage or spillage. Prevent product from entering drains.

Local authorities should be advised if significant spillages

cannot be contained.

Soil : Avoid subsoil penetration.

Water : Do not flush into surface water or sanitary sewer system.

Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : Yellow brown

Odour : Characteristic

Odour Threshold : No data available

Flash point : 61 °C

Ignition temperature : No data available

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable



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Explosive properties : Not explosive

Flammability : No data available

Oxidising properties : Not oxidising

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 6,5 - 7,5

Melting point/melting range : No data available

Boiling point/boiling range : No information available.

Vapour pressure : No data available

Density : 0,989 g/cm3

at 20 °C

Relative density : 0,989

at 20 °C

Solubility in water : No data available

Partition coefficient n- : Log Pow: 4,36

octanol/water at pH 8

at 25 °C

(Active substance)

Solubility in other solvents : No data available

Dynamic viscosity : No data available

Kinematic viscosity : No data available

Relative vapour density : No data available

Evaporation rate : No data available

Particle size : No data available

9.2 Other information

No additional information available.



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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.

Other hazardous decomposition products may be formed.

SECTION 11: Toxicological information

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

Acute toxicity

Component

Acute oral toxicity

<u>Difenoconazole</u> : LD50: 1.453 mg/kg

119446-68-3 Species: Rat

Remarks: Single dose

Acute toxicity estimate: 1.450 mg/kg

Component

Acute inhalation toxicity

Difenoconazole : LC50: > 3,3 mg/l 119446-68-3 Exposure time: 4 h Species: Rat

Remarks: Nose only.

Highest technically achievable concentration.

Component

according to Regulation (EC) No. 1907/2006



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Acute dermal toxicity

Skin corrosion/irritation

Component

Skin irritation

Difenoconazole : Species: Rabbit

119446-68-3 Results: No skin irritation Exposure time: 4 h

Serious eye damage/eye irritation

Component

Eye irritation

<u>Difenoconazole</u> : Species: Rabbit

119446-68-3 Results: No eye irritation Exposure time: 96 h

Respiratory or skin sensitization

Component

Sensitisation

Difenoconazole : Test type: Modified Buehler test

119446-68-3 Species: Guinea pig

Results: Did not cause sensitization on laboratory animals.

Remarks: Exposure time: 6 h

Germ cell mutagenicity

Component

Genotoxicity in vitro

Difenoconazole : Test type: Chromosome aberration test in vitro

119446-68-3 Results: Equivocal increases in chromosomal aberrations in

CHO cells in vitro.

Remarks: The substance is unlikely to be genotoxic

Genotoxicity in vivo

Cell type: Ovary cells Exposure time: 3 h

Remarks: The substance is unlikely to be genotoxic

Carcinogenicity



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Component

<u>Difenoconazole</u>: The substance is considered not likely to pose a carcinogenic

119446-68-3 risk to humans.

Reproductive toxicity

Component

Reproductive toxicity - Assessment

Difenoconazole : No toxicity to reproduction.

119446-68-3

Specific target organ toxicity - single exposure

Product

: Remarks: No data available

Component

Difenoconazole : Remarks: No data available

119446-68-3

Specific target organ toxicity - repeated exposure

Product

: Remarks: No data available

Component

Difenoconazole : Remarks: No data available

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Aspiration hazard

Product

Aspiration toxicity : No data available

Component

<u>Difenoconazole</u> : No data available

119446-68-3

11.2 Information on other hazards

Endocrine disrupting properties

Product:

according to Regulation (EC) No. 1907/2006



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The substance/mixture does not contain components Assessment

> 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.

SECTION 12: Ecological information

12.1 Toxicity

Product

: EC50: 0,65 mg/l Toxicity to fish

Exposure time: 96 h

Species: Oncorhynchus mykiss (Rainbow trout)

Component

Toxicity to fish

: EC50: 1,1 mg/l Difenoconazole

119446-68-3 Exposure time: 96 h

Species: Oncorhynchus mykiss (Rainbow trout)

Test Type: Flow-through test

Product

Toxicity to daphnia and other : EC50: 0,62 mg/l

aquatic invertebrates.

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Component

Toxicity to daphnia and other aquatic invertebrates. Difenoconazole : EC50: 0,77 mg/l

119446-68-3 Exposure time: 48 h

Species: Daphnia magna (Water flea)

Test Type: Static test

Product

Toxicity to algae and aquatic : EyC50: 1,01 mg/l

Exposure time: 72 h plants

Species: Scenedesmus subspicatus

Component

Toxicity to algae and aquatic plants

Difenoconazole : EbC50: 0,032 mg/l 119446-68-3 Exposure time: 72 h

Species: Scenedesmus subspicatus

according to Regulation (EC) No. 1907/2006



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Test Type: Static test

Component

M-Factor Acute aquatic toxicity

<u>Difenoconazole</u> : 10

119446-68-3

M-Factor Chronic aquatic toxicity

Difenoconazole : 10

119446-68-3

12.2 Persistence and degradability

Component

Stability in water

Difenoconazole : Degradation half-life (DT50): 315,5 d

119446-68-3

Component

Stability in soil

Difenoconazole : DT50: 130 d

119446-68-3

12.3 Bioaccumulative potential

Component

Bioaccumulation

<u>Difenoconazole</u>: Bioconcentration factor (BCF): 330

119446-68-3 Remarks: Some potential for bioaccumulation, but low risk for

secondary poisoning.

Component

Partition coefficient n-octanol/water

<u>Difenoconazole</u> : Log Pow: 4,36 (25 °C)

119446-68-3 pH: 8

12.4 Mobility in soil

Component

according to Regulation (EC) No. 1907/2006



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Distribution among environmental compartments

Remarks: Immobile to medium mobile

12.5 Results of PBT and vPvB assessment

Product

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 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.

12.7 Other adverse effects

Product

Additional ecological

information

: No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with the European Directives on

waste and hazardous waste.

Dispose of in accordance with local regulations.

The product should not be allowed to enter drains, water

courses or the soil.

Contaminated packaging : Triple rinse containers.

Do not re-use empty containers.

Store containers and offer for recycling of material when in

accordance with the local regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3082



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IMDG : UN 3082 IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Difenoconazole)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Difenoconazole)

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Difenoconazole)

14.3 Transport hazard class(es)

ADR : 9



IMDG : 9



IATA : 9



14.4 Packing group

ADR

Packing group : III
Hazard identification No : 90
Labels : 9
Tunnel restriction code : (-)
Limited quantity : 5,00 L

IMDG

Packing group : III Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)



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Packing instruction (cargo

aircraft)

: 450,00 L : Y964

964

Packing instruction (LQ) : YS
Packing group : III

Labels : Miscellaneous dangerous substance or article

IATA (Passenger)

Maximum quantity

Packing instruction : 964

(passenger aircraft)

Maximum quantity : 450,00 L
Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous dangerous substance or article

14.5 Environmental hazards

ADR

Environmentally hazardous : Yes

IATA (Passenger)

Environmentally hazardous : Yes

IATA (Cargo)

Environmentally hazardous : Yes

14.6 Special precautions for user

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

Major Accident Hazard : Legislation on the control of major-accident hazards involving

Legislation dangerous substances

SEVESO: E1

SEVESO

SEVESO category: Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.



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SECTION 16: Other information

Full text of hazard statements referred to under Section 2 and 3.

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H351	Suspected of causing cancer.
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.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE – Acute toxicity estimate; BCF - Bioconcentration factor; bw – Body weight; EC number – European Community number; ECx – Concentration associated with x % response; EmS – Emergency Schedule; ErCx – Concentration associated with x % growth rate response; GLP – Good Laboratory Practice; IATA – International Air Transport Association; IC50 – Half maximal inhibitory concentration; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50 % of a test population (Median Lethal Dose); M-factor – Multipying factor; N.O.S. – Not Otherwise Specified; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; OECD – Organization for Economic Co-operation and Development; OEL – Occupacional exposure limit; PBT – Persistent, Bioaccumulative and Toxic substance; SCL – Specific Concentration Limit; TWA – Time-weighted average; UFI – Unique formula identifier; UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

Other information

Other information : Update of section 1.4

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.