

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE

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

1.1 Product identifier

Trade name**DIFEND EXTRA**

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

Relevant identified uses of the substance or mixture

Plant protection product

Fungicide

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Certis Europe (GB)

Suite 5, 3 Riverside

Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. +44 (0) 1223 894 261

Fax no. +44 (0)1223 891210

e-mail info@certiseurope.co.uk - www.certiseurope.co.uk**Advice on Safety Data Sheet**certis@certiseurope.co.uk

1.4 Emergency telephone number

For further advice for medical professionals:

The National Poisons Information Service: -44 (0) 870 600 6266.

For further advice for veterinary surgeons: -44 (0) 20 7635 9195

Dublin – National Poisons Information Centre, Beaumont Hospital, Dublin 9:

Available from 8 am to 10pm – 7 days: +353 (01) 809 2166

Available 24hrs: +353(01)809 2566

Carechem 24 GB +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Chronic 1; H410

Classification information

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**Hazard pictograms**

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE

GHS09

Signal word

Warning

Hazard statement(s)

H410 Very toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statement(s)

P102 Keep out of reach of children.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P391 Collect spillage.

P501 Dispose of contents/ container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

2.3 Other hazards

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	Fludioxonil		
	131341-86-1	Aquatic Acute 1; H400	< 5,00
	-	Aquatic Chronic 1; H410	%-b.w.
	-		
	-		
2	Difenoconazole		
	119446-68-3	Acute Tox. 4; H302	< 5,00
	-	Aquatic Acute 1; H400	%-b.w.
	-	Aquatic Chronic 1; H410	
	-		
3	5-chloro-2-methyl-2H-isothiazol-3-one		
	26172-55-4	Acute Tox. 4; H302	< 0,50
	247-500-7	Skin Corr. 1B; H314	%-b.w.
	-	Skin Sens. 1; H317	
	-	Aquatic Acute 1; H400	

Full Text for all H-phrases and EUH-phrases: pls. see section 16

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

No special measures necessary. In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Call a doctor immediately and show label or packaging. Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not uncontrolled discharge into the subsoil/soil. Notify the authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

Information regarding waste disposal, see chapter 13. Information regarding personal protective measures, see chapter 8. Information regarding safe handling, see chapter 7.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE**General protective and hygiene measures**

Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale vapours.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

Do not store together with foodstuffs.

7.3 Specific end use(s)**Industry solution**

Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No parameters available for monitoring.

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties).

Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Other

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345)

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Form/Colour**

liquid

red

Odour

characteristic

Odour threshold

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE

No data available			
pH value			
Value		6,8	
Concentration		1	%
Source	Manufacturer		
Boiling point / boiling range			
No data available			
Melting point / melting range			
No data available			
Decomposition point / decomposition range			
No data available			
Flash point			
Value	>	100	°C
Source	Manufacturer		
Auto-ignition temperature			
Value	>	400	°C
Source	Manufacturer		
Oxidising properties			
not oxidizing			
Explosive properties			
Product does not present an explosion hazard.			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
No data available			
Upper flammability or explosive limits			
No data available			
Vapour pressure			
No data available			
Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
Value		1,04	g/ml
Source	Manufacturer		
Solubility in water			
No data available			
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	Fludioxonil	131341-86-1	-
	log Pow		4,12
	Source	Manufacturer	
2	Difenoconazole	119446-68-3	-
	log Pow		4,36
	Source	Manufacturer	

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE**Viscosity**

No data available

9.2 Other information**Other information**

No data available.

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

The product is stable under normal storage and handling conditions.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

strong bases; strong acids

10.6 Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute oral toxicity****No Product Name****1 DIFEND EXTRA**

LD50	>	2000	mg/kg
Species	rat		
Source	Manufacturer		

Acute dermal toxicity**No Product Name****1 DIFEND EXTRA**

LD50	>	2000	mg/kg
Species	rat		
Source	Manufacturer		

Acute inhalational toxicity**No Substance name****CAS no.****EC no.****1 Fludioxonil****131341-86-1****-**

LC50	>	2,6	mg/l
Duration of exposure	4 h		
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		

2 Difenoconazole**119446-68-3****-**

LC50	>	3,3	mg/l
Duration of exposure	4 h		
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		

Skin corrosion/irritation**No Product Name****1 DIFEND EXTRA**

Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE

Serious eye damage/irritation	
No	Product Name
1	DIFEND EXTRA
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation	
No	Product Name
1	DIFEND EXTRA
Route of exposure	Skin
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Germ cell mutagenicity	
No	Product Name
1	DIFEND EXTRA
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity	
No	Product Name
1	DIFEND EXTRA
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Carcinogenicity	
No	Product Name
1	DIFEND EXTRA
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

STOT - single exposure	
No	Product Name
1	DIFEND EXTRA
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

STOT - repeated exposure	
No	Product Name
1	DIFEND EXTRA
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Aspiration hazard	
Based on available data, the classification criteria are not met.	

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Product Name		
1	DIFEND EXTRA		
LC50	1	- 10	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	Manufacturer		

Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)	
No	Product Name
1	DIFEND EXTRA

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE

EC50	10	-	100	mg/l
Duration of exposure			48	h
Species	Daphnia			
Source	Manufacturer			

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No	Product Name			
1	DIFEND EXTRA			
ErC50	1	-	10	mg/l
Duration of exposure			72	h
Species	Pseudokirchneriella subcapitata			
Source	Manufacturer			

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	Difenoconazole	119446-68-3	-
BCF			330
Source	Manufacturer		

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	Fludioxonil	131341-86-1	-
log Pow			4,12
Source	Manufacturer		
2	Difenoconazole	119446-68-3	-
log Pow			4,36
Source	Manufacturer		

12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	Difenoconazole	119446-68-3	-
log Koc			3,58
Source	Manufacturer		
Evaluation/classification	low mobility		

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information
Do not discharge product uncontrolled into the environment.
May cause long-term adverse effects in the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Fludioxonil Difenoconazole
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Fludioxonil Difenoconazole
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	Fludioxonil Difenoconazole
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Trade name: DIFEND EXTRA**Product no.:** GM 115-116 C1557 IRE**Current version :** 1.0.1, issued: 19.07.2019**Replaced version:** 1.0.0, issued: 11.07.2019**Region:** IE**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	E1
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Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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