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

### **1.1 Product identifier**

Trade name	:	INSTRATA ELITE
Design code	:	A20323D
Product Registration Number	:	PCS 05399

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

Use of the Substance/Mixture	:	Fungicide
Recommended restrictions on use	:	professional use

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

Company	:	Syngenta Ireland Limited Block 6 Cleaboy Business Park, Old Kilmeaden Road, Waterford Ireland
Telephone	:	(051) 377203
Telefax	:	(051) 354748
E-mail address of person responsible for the SDS	:	cropsales.ie@syngenta.com

### 1.4 Emergency telephone number

Emergency telephone	:	Syngenta +44 1484 538444
number		Poisons Information Centre of Ireland
		Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00
		p.m. 7 days a week)
		Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 127	2/2008)
Short-term (acute) aquatic hazard,	H400: Very toxic to aquatic life.
Category 1	
Long-term (chronic) aquatic hazard,	H410: Very toxic to aquatic life with long lasting
Category 1	effects.



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### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)		
Hazard pictograms	:	₩2
Signal word	:	Warning
Hazard statements	:	H410 Very toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
		EUH208 Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.
Precautionary statements	:	P273 Avoid release to the environment.
·····	-	Response:
		P391 Collect spillage.
		<b>Disposal:</b> P501 Dispose of contents/container to a licensed hazardous- waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-

### 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.

hazardous waste.

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.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		· · ·
	Registration number		
fludioxonil (ISO)	131341-86-1	Aquatic Acute 1;	>= 2.5 - < 10
		H400	



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		608-069-00-4	Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
difenc	oconazole	119446-68-3	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 2.5 - < 7
	ium cyl(sulphonatophenoxy Jlphonate	/)benz 28519-02-0 249-063-8	Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 1 - < 2.
1,2-b	enzisothiazol-3(2H)-on	220-120-9 613-088-00-6 01-2120761540-6	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1 specific concentration limit Skin Sens. 1; H317 >= 0,05 %	>= 0.025 - 0.05
brono	pol (INN)	52-51-7 200-143-0 603-085-00-8	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute	>= 0.025 - 0.1
			aquatic toxicity): 10 M-Factor (Chronic	



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		aquatic toxicity): 1	
For explanation of abbreviations see	section 16.		

SECTION 4: First aid measures

4.1 Description of first aid measur	
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	<ul> <li>Move the victim to fresh air.</li> <li>If breathing is irregular or stopped, administer artificial respiration.</li> <li>Keep patient warm and at rest.</li> <li>Call a physician or poison control centre immediately.</li> </ul>
In case of skin contact	<ul> <li>Take off all contaminated clothing immediately.</li> <li>Wash off immediately with plenty of water.</li> <li>If skin irritation persists, call a physician.</li> <li>Wash contaminated clothing before re-use.</li> </ul>
In case of eye contact	<ul> <li>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.</li> <li>Remove contact lenses.</li> <li>Immediate medical attention is required.</li> </ul>
If swallowed	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Do NOT induce vomiting.</li> </ul>
4.2 Most important symptoms and	d effects, both acute and delayed
Symptoms	: Nonspecific
Cymptomo	No symptoms known or expected.
4.3 Indication of any immediate m	edical attention and special treatment needed
Treatment	: There is no specific antidote available. Treat symptomatically.
SECTION 5: Firefighting measu	ures
5.1 Extinguishing media	
Suitable extinguishing media	: Extinguishing media - small fires

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	



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	Unsuitable extinguishing media	:	Do not use a sol fire.	id water stream as it may scatter and spread
5.2 S	pecial hazards arising from	the	e substance or m	ixture
	Specific hazards during irefighting	:	will produce den products of com	ontains combustible organic components, fire se black smoke containing hazardous oustion (see section 10). omposition products may be a hazard to
5.3 A	dvice for firefighters			
	Special protective equipment for firefighters	:	Wear full protect apparatus.	ive clothing and self-contained breathing
F	Further information	:	courses.	off from fire fighting to enter drains or water ainers exposed to fire with water spray.

### **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.
<b>6.2 Environmental precautions</b> Environmental precautions	:	Prevent further leakage or spillage if safe to do so. 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, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.
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### 6.4 Reference to other sections

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

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke.



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		For personal pr	otection see section 8.	
7.2 Condi	tions for safe storage	e, including any inco	npatibilities	
Requirements for storage : areas and containers		tightly closed in of the reach of o	No special storage conditions required. 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.	
7.3 Specif	ic end use(s)			
Speci	fic use(s)		safe use of this product, please refer to the ons 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
fludioxonil (ISO)	131341-86- 1	TWA	5 mg/m3	Syngenta
difenoconazole	119446-68- 3	TWA	5 mg/m3	Syngenta

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
1,2-benzisothiazol- 3(2H)-one	Workers	Inhalation	Long-term systemic effects	6.81 mg/m3
	Workers	Dermal	Long-term systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.345 mg/kg
Wor	Workers	Inhalation	Long-term systemic effects	3.5 mg/m3
	Workers	Inhalation	Acute systemic effects	10.5 mg/m3
	Workers	Inhalation	Long-term local effects	2.5 mg/m3
	Workers	Inhalation	Acute local effects	2.5 mg/m3
	Workers	Dermal	Long-term systemic effects	2 mg/kg
	Workers	Dermal	Acute systemic effects	6 mg/kg
	Workers	Dermal	Long-term local effects	0.008 mg/cm2
	Workers	Dermal	Acute local effects	0.008 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	0.6 mg/m3



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Consumer	s Inhalation	Acute systemic effects	1.8 mg/m3
Consumer	s Inhalation	Long-term local effects	0.6 mg/m3
Consumer	s Inhalation	Acute local effects	0.6 mg/m3
Consumer	s Dermal	Long-term systemic effects	0.7 mg/kg
Consumer	s Dermal	Acute systemic effects	2.1 mg/kg
Consumer	s Dermal	Long-term local effects	0.004 mg/cm2
Consumer	s Dermal	Acute local effects	0.004 mg/cm2
Consumer	s Oral	Long-term systemic effects	0.18 mg/kg
Consumer	s Oral	Acute systemic effects	0.5 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
1,2-benzisothiazol-3(2H)-one	Fresh water	0.00403 mg/l
	Marine water	0.000403 mg/l
	Sewage treatment plant	1.03 mg/l
	Fresh water sediment	0.0499 mg/kg
	Marine sediment	0.00499 mg/kg
	Freshwater - intermittent	0.0011 mg/l
	Marine water - intermittent	0.000110 mg/l
	Soil	3 mg/kg
bronopol (INN)	Fresh water	0.01 mg/l
	Marine water	0.001 mg/l
	Freshwater - intermittent	0.003 mg/l
	Sewage treatment plant	0.43 mg/l
	Fresh water sediment	0.041 mg/kg
	Marine sediment	0.003 mg/kg
	Soil	0.5 mg/kg

### 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 :

Remarks	:	No special protective equipment required.
Skin and body protection	:	No special protective equipment required.
		Select skin and body protection based on the physical job



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		requirements.	
Respiratory protection		required. When workers	spiratory protective equipment normally are facing concentrations above the exposure use appropriate certified respirators.
Protective measures		over the use of When selecting	nical measures should always have priority personal protective equipment. personal protective equipment, seek fessional advice.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state Colour	:	liquid white
Odour Odour Threshold	:	No data available No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Method: Pensky-Martens closed cup does not flash
Auto-ignition temperature	:	425 °C
Decomposition temperature Decomposition temperature pH	:	No data available 7.3 Concentration: 100 %
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility Solubility in other solvents	:	No data available No data available



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octan	ion coefficient: n- ol/water ur pressure	: No data avai	
Dens		: 1.1 g/cm3 (2	
Relative vapour density		: No data avai	ilable
	cle characteristics article size	: No data ava	ilable
9.2 Other	information		
Explo	osives	: Not explosiv	e
Oxidizing properties : The substance or mixture is not classified as oxidi			
Evap	oration rate	: No data avai	ilable

### **SECTION 10: Stability and reactivity**

# 10.1 Reactivity None reasonably foreseeable. 10.2 Chemical stability Stable under normal conditions. 10.3 Possibility of hazardous reactions Hazardous reactions 10.4 Conditions to avoid · Conditions to avoid · No decomposition if used as directed. 10.5 Incompatible materials · Materials to avoid · No ne known.

### 10.6 Hazardous decomposition products

Hazardous decomposition : No hazardous decomposition products are known. products

### **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of : Ingestion Exposure Skin contact Eye contact Eye contact



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Αςι	ite toxicity		
Pro	duct:		
	te oral toxicity		Rat, female): > 2,000 mg/kg ment: The substance or mixture has no acute oral
Acu	te inhalation toxicity	Exposu Test atr Assessi	Rat, male and female): > 2.65 mg/l re time: 4 h nosphere: dust/mist ment: The substance or mixture has no acute on toxicity
Acu	te dermal toxicity		Rat, male and female): > 2,000 mg/kg ment: The substance or mixture has no acute derma
<u>Cor</u>	nponents:		
flud	lioxonil (ISO):		
	te oral toxicity	: LD50 (F	Rat, male and female): > 5,000 mg/kg
Acu	te inhalation toxicity	Exposu Test atr Assessi	Rat, male and female): > 2.6 mg/l re time: 4 h nosphere: dust/mist ment: The substance or mixture has no acute on toxicity
Acu	te dermal toxicity		Rat, male and female): > 2,000 mg/kg ment: The substance or mixture has no acute derma
dife	noconazole:		
Acu	te oral toxicity	Assessi	Rat, male and female): 1,453 mg/kg ment: The component/mixture is moderately toxic af ngestion.
Acu	te inhalation toxicity	Exposu Test atr Assessi	Rat, male and female): > 3,300 mg/m3 re time: 4 h nosphere: dust/mist ment: The substance or mixture has no acute on toxicity
Acu	te dermal toxicity		Rabbit, male and female): > 2,010 mg/kg ment: The substance or mixture has no acute derma
1,2-	benzisothiazol-3(2H)-o	e:	
Acu	te oral toxicity	: LD50 (F	Rat, male): 670 mg/kg
Acu	te dermal toxicity		Rat, male and female): > 2,000 mg/kg ment: The substance or mixture has no acute derma



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			toxicity	
brond	opol (INN):			
	oral toxicity	:	Assessment: The single ingestion.	e component/mixture is moderately toxic aft
Acute	dermal toxicity	:	Assessment: The single contact with	e component/mixture is moderately toxic aft h skin.
Skin	corrosion/irritation			
Produ	<u>uct:</u>			
Speci Resul		:	Rabbit No skin irritation	
<u>Comp</u>	oonents:			
fludic	oxonil (ISO):			
Speci Resul		:	Rabbit No skin irritation	
		-		
	oconazole:		Dabbit	
Speci Resul		:	Rabbit No skin irritation	
1,2-be	enzisothiazol-3(2H)	-one:		
Speci		:	Rabbit	
Resul	t	:	Mild skin irritatior	1
	opol (INN):			
Resul	t	:	Irritating to skin.	
Serio	us eye damage/eye	e irritati	on	
<u>Produ</u>				
Speci Resul		:	Rabbit No eye irritation	
<u>Comp</u>	oonents:			
fludic	oxonil (ISO):			
Speci		:	Rabbit	
Resul		:	No eye irritation	
	oconazole:			
Speci		:	Rabbit	
Resul	τ	:	irritation to eyes,	reversing within 7 days



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dis	odium dodecyl(sulpho	atophenoxy)benzenesulphonate:
Re	sult	: Risk of serious damage to eyes.
1,2	e-benzisothiazol-3(2H)-c	1e:
	ecies sult	: Rabbit : Risk of serious damage to eyes.
bro	onopol (INN):	
Re	sult	: Risk of serious damage to eyes.
Re	spiratory or skin sensit	sation
	oduct:	
	st Type ecies	: Local lymph node assay (LLNA) : Mouse
•	sult	: Did not cause sensitisation on laboratory animals.
<u>Co</u>	mponents:	
flu	dioxonil (ISO):	
	ecies sult	<ul><li>Guinea pig</li><li>Did not cause sensitisation on laboratory animals.</li></ul>
dif	enoconazole:	
	ecies sult	<ul><li>Guinea pig</li><li>Did not cause sensitisation on laboratory animals.</li></ul>
1,2	e-benzisothiazol-3(2H)-c	1e:
Re	sult	: Probability or evidence of skin sensitisation in humans
Ge	rm cell mutagenicity	
<u>Co</u>	mponents:	
Ge	dioxonil (ISO): erm cell mutagenicity- sessment	: Animal testing did not show any mutagenic effects.
Ge	enoconazole: erm cell mutagenicity- sessment	: Animal testing did not show any mutagenic effects.
1,2	e-benzisothiazol-3(2H)-c	ne:
	erm cell mutagenicity- sessment	: Weight of evidence does not support classification as a ge cell mutagen.



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С	arcinogenicity			
<u>C</u>	omponents:			
fl	udioxonil (ISO):			
	arcinogenicity - ssessment	:	No evidence of ca	arcinogenicity in animal studies.
	ifenoconazole:			
	arcinogenicity - ssessment	:	Weight of evidend carcinogen	e does not support classification as a
R	eproductive toxicity			
<u>C</u>	omponents:			
fl	udioxonil (ISO):			
	eproductive toxicity - ssessment	:	No toxicity to repr	oduction
	ifenoconazole:			
	eproductive toxicity - ssessment	:	No toxicity to repr	oduction
S	TOT - single exposure			
<u>C</u>	omponents:			
b	ronopol (INN):			
A	ssessment	:		mixture is classified as specific target organ posure, category 3 with respiratory tract
R	epeated dose toxicity			
<u>C</u>	omponents:			
d	ifenoconazole:			
R	emarks	:	No adverse effect	has been observed in chronic toxicity tests.
11.2 lr	nformation on other hazar	ds		
E	ndocrine disrupting prope	ertie	S	
	roduct:			
А	ssessment	:	considered to have to REACH Article	ixture does not contain components re endocrine disrupting properties according 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.



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### **SECTION 12: Ecological information**

### 12.1 Toxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 15 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 8.2 mg/l Exposure time: 72 h
		EC10 (Raphidocelis subcapitata (freshwater green alga)): 4.5 mg/l End point: Growth rate Exposure time: 72 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.5 mg/l End point: Growth rate Exposure time: 72 h
Components:		
fludioxonil (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l Exposure time: 96 h
		LC50 (Pimephales promelas (fathead minnow)): 0.7 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.4 mg/l Exposure time: 48 h
		EC50 (Americamysis): 0.27 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 0.44 mg/l Exposure time: 96 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.132 mg/l End point: Growth rate Exposure time: 96 h
		ErC50 (Skeletonema costatum (marine diatom)): 0.43 mg/l Exposure time: 96 h



/ersic 3.0	rsion Revision Date: 0 17.05.2021		SDS Number: S00036476970		This version replaces all previous versions	
				NOEC (Skeletone End point: Growth Exposure time: 96		
	/I-Facto oxicity)	or (Acute aquatic	:	1, M-Factor=1 us	ed for transport classification	
Т	oxicity	to microorganisms	:	EC50 (activated s Exposure time: 3	sludge): > 1,000 mg/l h	
	oxicity oxicity)	to fish (Chronic	:	NOEC: 0.04 mg/l Exposure time: 28 Species: Oncorhy	3 d /nchus mykiss (rainbow trout)	
				NOEC: 0.018 mg. Exposure time: 1 Species: Pimepha		
а	quatic	to daphnia and other invertebrates c toxicity)	:	Exposure time: 2		
				NOEC: 0.018 mg Exposure time: 28 Species: America	3 d	
	/I-Facto oxicity)	or (Chronic aquatic	:	10, M-Factor=1 u	sed for transport classification	
-		<b>conazole:</b> to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 1.1 mg/l δ h	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.77 mg/l 3 h	
				EC50 (Americam Exposure time: 96		
	oxicity lants	to algae/aquatic	:	EC50 (Navicula p Exposure time: 72	elliculosa (Freshwater diatom)): 0.091 mg/ 2 h	
				NOEC (Navicula Exposure time: 72	pelliculosa (Freshwater diatom)): 0.053 mg 2 h	
				ErC50 (Desmode mg/l Exposure time: 72	smus subspicatus (green algae)): 0.0876 2 h	
				EC10 (Desmodes End point: Growth Exposure time: 72		
N	/I-Facto	or (Acute aquatic	:	10		



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toxicity	)		
Toxicity	y to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicity toxicity	y to fish (Chronic )	:	NOEC: 0.0076 mg/l Exposure time: 34 d Species: Pimephales promelas (fathead minnow)
aquatio	y to daphnia and other c invertebrates ic toxicity)	:	NOEC: 0.0056 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
			NOEC: 0.0023 mg/l Exposure time: 28 d Species: Americamysis
M-Fact toxicity	or (Chronic aquatic	:	10
disodi	um dodecyl(sulphona	top	phenoxy)benzenesulphonate:
Ecoto	cicology Assessment		
Chroni	c aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
1,2-be	nzisothiazol-3(2H)-one	e:	
Toxicity	y to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.18 mg/l Exposure time: 96 h
	y to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.94 mg/l Exposure time: 48 h
Toxicity plants	y to algae/aquatic	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.15 mg/l Exposure time: 72 h
			EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.04 mg/l End point: Growth rate Exposure time: 72 h
M-Fact toxicity	or (Acute aquatic )	:	1
Toxicity toxicity	y to fish (Chronic )	:	NOEC: 0.3 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)
aquatio	y to daphnia and other c invertebrates ic toxicity)	:	NOEC: 1.7 mg/l Exposure time: 21 d Species: Daphnia (water flea)



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bron	opol (INN):			
	city to algae/aquatic	:	NOEC (algae): ( Exposure time:	
			EC50 (algae): 0 Exposure time:	
M-Fa toxic	actor (Acute aquatic ity)	:	10	
M-Fa toxic	actor (Chronic aquatic ity)	:	1	
2.2 Pers	istence and degradab	ility		
<u>Com</u>	ponents:			
	oxonil (ISO):			
Biode	egradability	:	Result: Not read	ily biodegradable.
Stabi	ility in water	:	: Degradation half life: 450 - 700 d Remarks: Persistent in water.	
difer	noconazole:			
Biode	egradability	:	Result: Not read	ily biodegradable.
Stab	ility in water	:	Degradation hal Remarks: Produ	f life: 1 d ct is not persistent.
1,2-k	penzisothiazol-3(2H)-or	ne:		
	egradability	:	Result: rapidly d	egradable
bron	opol (INN):			
	egradability	:	Result: Readily	biodegradable.
12.3 Bioa	ccumulative potential			
<u>Com</u>	ponents:			
	oxonil (ISO):			
Bioa	ccumulation	:	Remarks: Does	not bioaccumulate.
	tion coefficient: n- nol/water	:	log Pow: 4.12 (2	5 °C)
	noconazole:			
Bioa	ccumulation	:	Remarks: High I	bioaccumulation potential.
Parti	tion coefficient: n-	:	log Pow: 4.4 (25	°C)



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-	ccumulation	<b>e:</b> :	Remarks: Bioacc	umulation is unlikely.
12.4 Mob	ility in soil			
Com	ponents:			
fludi	oxonil (ISO):			
	ibution among onmental compartments	:	Remarks: immob	ile
	ility in soil	:		14 d pation: 50 % (DT50) ct is not persistent.
difer	noconazole:			
	ibution among onmental compartments	:	Remarks: Low me	obility in soil.
	Stability in soil			149 - 187 d pation: 50 % (DT50) t is not persistent.
12.5 Res	ults of PBT and vPvB as	se	ssment	
Prod	luct:			
	essment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
<u>Com</u>	ponents:			
fludi	oxonil (ISO):			
Asse	essment	:	bioaccumulating	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating
difer	noconazole:			
Asse	essment	:	bioaccumulating	anot considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating
1,2-b	penzisothiazol-3(2H)-one	e:		
	essment	:	bioaccumulating	anot considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating



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### 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

No data available

### **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 remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
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

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL AND DIFENOCONAZOLE)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,



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			N.O.S. (FLUDIOXONII	. AND	DIFENOCONAZOLE)
RID		:			HAZARDOUS SUBSTANCE, LIQUID
			N.O.S. (FLUDIOXONIL	AND	DIFENOCONAZOLE)
IMDG		:	ENVIRONMEN	TALLY	HAZARDOUS SUBSTANCE, LIQUID
			N.O.S. (FLUDIOXONIL	. AND	DIFENOCONAZOLE)
ΙΑΤΑ		:			dous substance, liquid, n.o.s. DIFENOCONAZOLE)
4.3 Transpo	rt hazard class(es)				
ADN		:	9		
ADR		:	9		
RID		:	9		
IMDG		:	9		
ΙΑΤΑ		:	9		
4.4 Packing	group				
ADN					
Packing g		:			
	tion Code Ientification Number	÷	M6 90		
Labels		:	9		
ADR					
Packing (	group Ition Code	:	III M6		
	dentification Number	÷	90		
Labels		:	9		
	striction code	•	(-)		
<b>RID</b> Packing g			111		
	ation Code	÷	M6		
	dentification Number	:	90		
Labels		•	9		
IMDG Packing g	aroup		111		
Labels		:	9		
EmS Coo	le	:	F-A, S-F		
IATA (Ca			064		
Packing i aircraft)	nstruction (cargo	•	964		
Packing i	nstruction (LQ)	:	Y964		
Packing o Labels	group	÷	III Miscellaneous		
		•	MISCEIIAIIEOUS		

IATA (Passenger)



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(pass Pack	ing instruction senger aircraft) ing instruction (LQ) ing group Is	:	964 Y964 III Miscellaneous	
14.5 Envi	ronmental hazards			
<b>ADN</b> Envir	onmentally hazardous	: :	yes	
<b>ADR</b> Envir	onmentally hazardous	:	yes	
<b>RID</b> Envir	onmentally hazardous	: :	yes	
<b>IMDO</b> Marir	<b>;</b> ne pollutant	: ;	yes	
	(Passenger) onmentally hazardous	: ;	yes	
	(Cargo) onmentally 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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	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
Seveso III: Directive 2012/18/EU of the European Parlia major-accident hazards involving dangerous substances		and of the Council on the control of

	0	Quantity 1	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t



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### HAZARDS

### 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.

Use plant protection products safely. Always read the label and product information before use.

### 15.2 Chemical safety assessment

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

### **SECTION 16: Other information**

### Full text of H-Statements

H302 :	Harmful if swallowed.
H312 :	Harmful in contact with skin.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H335 :	May cause respiratory irritation.
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.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - 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 -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50



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- 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 Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Classification of the mixt	ure:	Classification procedure:
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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