according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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

1.1 Product identifier

Trade name	:	SWITCH
Design code	:	A9219B
Product Registration Number	:	PCS No. 06414
Unique Formula Identifier (UFI)	:	0VXR-0DCK-C00V-T6T6

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

Use of the Sub- stance/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 num- ber	 Syngenta +44 1484 538444 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 1272/2008)

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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go	ory 1	erm (acute) aquatic h			H400: Very toxic to aquatic life.
	ong-te gory 1	rm (chronic) aquatic	haz	ard, Cat-	H410: Very toxic to aquatic life with long lasting effects.
2.2 La	abel el	ements			
La	abelli	ng (REGULATION (I	EC)	No 1272/20	08)
H	lazard	pictograms	:		送
Si	Signal v	word	:	Warning	•
H	lazard	statements	:		ay cause an allergic skin reaction. The toxic to aquatic life with long lasting effects.
P	recaut	tionary statements	:	Preventio	n:
					oid breathing dust. ear protective gloves.
				Response	:
				P333 + P3 advice/ att	ention.
				P362 + P3 before reu P391 Co	8
				Disposal:	nieu spinage.
				P501 Di waste disp	spose of contents/container to a licensed hazardous- osal contractor or collection site except for empty d clean containers which can be disposed of as non- waste.

Hazardous components which must be listed on the label:

cyprodinil (ISO)

Additional Labelling

EUH401

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

2.3 Other hazards

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

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

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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.

May form combustible dust concentrations in air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components			
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
cyprodinil (ISO)	121552-61-2 612-242-00-X	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 30 - < 50
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
fludioxonil (ISO)	131341-86-1 608-069-00-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 25 - < 30
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
reaction product of naphthalene, butanol, sulfonated and neutral- ized by caustic soda	Not Assigned 01-2119980979-09- xxxx	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 1 - < 3

For explanation of abbreviations see section 16.

:

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.

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If inhaled		If breathing i tion. Keep patient	 Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately. 			
In case of skin contact		Wash off imr If skin irritatio	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.			
In case of eye contact		for at least 1 Remove con				
lf sv	allowed	container or	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.			
4.2 Most	important symptoms a	nd effects, both a	acute and delayed			
Sym	ptoms	: Nonspecific No symptom	s known or expected.			
4.3 Indic	ation of any immediate	medical attention	n and special treatment needed			
	atment		specific antidote available.			
SECTIO	N 5: Firefighting mea	sures				
5.1 Extin	guishing media					
Suitable extinguishing media		Use water sp bon dioxide.	g media - small fires oray, alcohol-resistant foam, dry chemical or car- g media - large fires stant foam			
Unsuitable extinguishing media		: Do not use a fire.	solid water stream as it may scatter and spread			
5.2 Spec	ial hazards arising from	the substance o	or mixture			
Specific hazards during fire- fighting		: Fire will spre As the produ will produce ucts of comb	Fire will spread by burning with a visible flame. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod- ucts of combustion (see section 10). Exposure to decomposition products may be a hazard to health.			

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5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protect	ive	equipment and emergency procedures
Personal precautions	:	Refer to protective measures listed in sections 7 and 8. Avoid dust formation.
6.2 Environmental precautions		
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for cont	taiı	nment and cleaning up
Methods for cleaning up	:	Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for dis- posal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

6.4 Reference to other sections

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

Retain and dispose of contaminated wash water.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

Avoid contact with skin and eyes.

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		9	do not eat, drink or smoke. I protection see section 8.
7.2 Co	nditions for safe storage	, including any in	compatibilities
areas and containers ventilated place.		ventilated pla	ners tightly closed in a dry, cool and well- ace. Keep out of the reach of children. Keep away rink and animal feedingstuffs.
	urther information on stor- ge stability	: Physically and chemically stable for at least 2 years whe stored in the original unopened sales container at ambie temperatures.	
7.3 Sp	ecific end use(s)		
S	Specific use(s) : For proper and safe use of this product, please refer approval conditions laid down on the product label.		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
cyprodinil (ISO)	121552-61- 2	TWA	5 mg/m3	Syngenta
fludioxonil (ISO)	131341-86- 1	TWA	5 mg/m3	Syngenta
diatomite	61790-53-2	OELV - 8 hrs (TWA) (Respira- ble dust)	2.4 mg/m3 (Silica)	IE OEL
		OELV - 8 hrs (TWA) (inhalable dust)	6 mg/m3 (Silica)	IE OEL

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
sodium sulphate	Workers	Inhalation	Systemic effects	20 mg/m3
	Workers	Inhalation	Local effects	20 mg/m3
	Consumers	Inhalation	Systemic effects	12 mg/m3
	Consumers	Inhalation	Local effects	12 mg/m3
reaction product of naphthalene, butanol, sulfonated and neu- tralized by caustic soda	Workers	Inhalation	Long-term systemic effects	0.549 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0.36 mg/m3
	Workers	Dermal	Long-term systemic effects	1.057 mg/kg
	Consumers	Inhalation	Long-term systemic	0.137 mg/m3

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		effects	
Consumers	Inhalation	Long-term local ef- fects	0.18 mg/m3
Consumers	Dermal	Long-term systemic effects	0.528 mg/kg
Consumers	Oral	Long-term systemic effects	0.528 mg/kg

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

Substance name	Environmental Compartment	Value
sodium sulphate	Fresh water	11.09 mg/l
	Freshwater - intermittent	17.66 mg/l
	Marine water	1.109 mg/l
	Sewage treatment plant	800 mg/l
	Fresh water sediment	40.2 mg/kg dry weight (d.w.)
	Marine sediment	4.02 mg/kg dry weight (d.w.)
	Soil	1.54 mg/kg dry weight (d.w.)
reaction product of naphthalene, butanol, sulfonated and neutral- ized by caustic soda	Fresh water	0.2 mg/l
	Freshwater - intermittent	2 mg/l
	Marine water	0.02 mg/l
	Sewage treatment plant	0.016 mg/l
	Fresh water sediment	5.4 mg/kg
	Marine sediment	0.54 mg/kg
	Soil	0.12 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/face protection Hand protection	:	No special protective equipment required.
Material Break through time Glove thickness	:	Nitrile rubber > 480 min 0.5 mm
Remarks	:	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality

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		Please observ breakthrough gloves. Also ta tions under wh cuts, abrasion depends amo and the type of each case. Gl is any indication The selected tions of Regul derived from i	
Skin and body protection		tration and an cific work-plac	wash contaminated clothing before re-use.
Respiratory protection		: No personal re quired.	us protective suit espiratory protective equipment normally re-
Prote	ctive measures	limit they mus : The use of teo over the use o	s are facing concentrations above the exposure t use appropriate certified respirators. chnical measures should always have priority of personal protective equipment. ng personal protective equipment, seek appro-

Environmental exposure controls

Water

: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: granules
Colour	: grey to brown
Odour	: weak
Odour Threshold	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flammability	: May form combustible dust concentrations in air.

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	Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Flash point		:	No data available	•
			:	No data available)
			:	No data available	9
	Auto-ig	nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Minimu pH	m ignition temperature	: :	600 °C 9.6 Concentration: 1	%w/v
	Viscosi Visc	ty osity, kinematic	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Solu	bility in other solvents	:	No data available	3
	Partition octanol	n coefficient: n- /water	:	No data available	
	Vapour	pressure	:	No data available	
	Density	,	:	1 g/cm3	
	Bulk de	nsity	:	0.537 g/cm3	
	Relative	e vapour density	:	No data available)
		characteristics icle size	:	No data available	
9.2 (formation	_	Net combe inc	
	Explosi		:	Not explosive	r minture is not closeified as avidining
		ng properties able solids		The substance of	r mixture is not classified as oxidizing.
		able solids ning number	:	5 (20 °C)	
				6 (100 °C)	

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Self-ł	neating substances	: The substance	or mixture is not classified as self heating	
Evap	oration rate	: No data available		
Minim	num ignition energy	: 30 - 100 mJ		
SECTION	N 10: Stability and r	eactivity		
10.1 Reac	tivity			
	tivity reasonably foreseeab	le.		
None	•	le.		
None 10.2 Cher	reasonably foreseeab			

Hazardous reactions :	No dangerous reaction known under conditions of normal use.
-----------------------	---

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directe	used as directed.
---	-------------------

10.5 Incompatible materials

Materials to avoid	:	None 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 exposure Ingestion Inhalation Skin contact Eye contact Eye contact

Product: Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.51 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity

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ion Revision Date: 18.08.2023 Acute dermal toxicity Components: cyprodinil (ISO): Acute oral toxicity	:		Date of last issue: 18.08.2022 Date of first issue: 14.06.2017 and female): > 2,000 mg/kg substance or mixture has no acute dermal
<u>Components:</u> cyprodinil (ISO): Acute oral toxicity		Assessment: The	
cyprodinil (ISO): Acute oral toxicity	:		
Acute oral toxicity	:		
Acute oral toxicity	:		
		LD50 (Rat, female	e): 2,500 mg/kg
Acute inhalation toxicity	:	Exposure time: 4 h Test atmosphere:	
Acute dermal toxicity	:		and female): > 2,000 mg/kg substance or mixture has no acute derma
fludioxonil (ISO):			
Acute oral toxicity	:	LD50 (Rat, male a	and female): > 5,000 mg/kg
Acute inhalation toxicity	:	Exposure time: 4 h Test atmosphere:	
Acute dermal toxicity	:		and female): > 2,000 mg/kg substance or mixture has no acute derma
reaction product of naphtha	len	e, butanol, sulfona	ated and neutralized by caustic soda:
Acute oral toxicity		LD50 (Rat): 1,800	-
Acute inhalation toxicity	:	LC50 (Rat): 4.08 r Exposure time: 4 r Test atmosphere:	h
Acute dermal toxicity	:	LD50 (Rabbit): 3,0)00 mg/kg
Skin corrosion/irritation			
Product:			
Species Result	:	Rabbit No skin irritation	
Components:			
cyprodinil (ISO):			

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Species :: Rabbit Result :: No skin irritation Hudioxonii (ISO): : Species :: Rabbit Result :: No skin irritation Serious eye damage/eye irritation : Serious eye damage/eye irritation Species :: Result :: Species :: Species :: Species :: Species :: Result :: Species :: Result :: Species :: Result :: No eye irritation Hudioxonii (ISO): Species :: Species :: Result :: No eye irritation reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda: Species :: Result :: Species :: Result :: Species :: Result :: Spe	ersion 2.1	Revision Date: 18.08.2023		DS Number: 269856	Date of last issue: 18.08.2022 Date of first issue: 14.06.2017
Result : No skin irritation fludioxonil (ISO):					
fudioxonil (ISO):Secies: RabbitResult: No skin irritationSerious eye damage/eye irritationEroduce:Species: RabbitResult: No eye irritationComponents:cyprodinil (ISO):Species: RabbitResult: No eye irritationfudioxonil (ISO):Species: RabbitResult: No eye irritationProduct:Result: No eye irritationProduct:Result: RabbitResult: SeciesImage: Secies: Cuinea pigResult: Cuinea pigResult: Did not cause sensitisation on laboratory animals.Curroell mutagenicity: Did not cause sensitisation on laboratory animals.Components:: SeciesSecies: Did not cause sensitisation on laboratory animals.Components:: SeciesSecies: SeciesSecies <td>Specie</td> <td>es</td> <td>:</td> <td></td> <td></td>	Specie	es	:		
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Result : No skin irritation Serious eye damage/eye irritation Product: Species : Rabbit Result : No eye irritation Components: cyprodinil (ISO): Species : Rabbit Result : No eye irritation fludioxonil (ISO): Species : Rabbit Result : No eye irritation fludioxonil (ISO): Species : Rabbit Result : No eye irritation fludioxonil (ISO): : Species : Rabbit Result : No eye irritation reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda: Species : Rabbit Result : Risk of serious damage to eyes. Result : Risk of serious damage to eyes. Product: : May cause sensitisation by skin contact. Species : Guinea pig Result : May cause sensitisation by skin contact. Components: : Guinea pig Result : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity </td <td>fludio</td> <td>xonil (ISO):</td> <td></td> <td></td> <td></td>	fludio	xonil (ISO):			
Serious eye damage/eye irritation Product: Species : Rabbit Result : No eye irritation Components: . cyprodinil (ISO): . Species : Rabbit Result : No eye irritation fludioxonil (ISO): . Species : Rabbit Result : No eye irritation fludioxonil (ISO): . Species : Rabbit Result : No eye irritation fludioxonil (ISO): . Species : Rabbit Result : No eye irritation reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda: Species : Rabbit Result : Risk of serious damage to eyes. Result : Risk of serious damage to eyes. Result : May cause sensitisation by skin contact. Components: : May cause sensitisation by skin contact. Components: : Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1B. Species : Did not cause sensitisation on laboratory animals.			:		
Product: Species Rabbit Result in No eye irritation Components: Species cyprodinil (ISO): Species Species in No eye irritation fludioxonil (ISO): Species Species in No eye irritation fludioxonil (ISO): Species Species in No eye irritation fludioxonil (ISO): Species Species in No eye irritation reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda: Species in Rabbit Result in No eye irritation reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda: Species in Rabbit Result in No eye irritation Product: in Risk of serious damage to eyes. Result in Nay cause sensitisation by skin contact. Components: in May cause sensitisation by skin contact. Components: in The product is a skin sensitiser, sub-category 1B. Species in Cuinea pig Result in Did not cause sensitisation on laboratory animals. Germ cell mutagenicity Did no	Result		:	No skin irritation	
Species:Rabbit ResultResult:No eye irritationComponents:	Serious eye damage/eye irr			on	
Result : No eye irritation Components:	<u>Produ</u>	<u>ct:</u>			
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Result:No eye irritationfludioxonil (ISO)::Species:RabbitResult:No eye irritationreaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:Species:RabbitResult:RabbitResult:RabbitResult:Risk of serious damage to eyes.Product::Species:<					
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reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda: Species : Result : Respiratory or skin sensitisation Product: Species : Species : Species : Guinea pig Result : May cause sensitisation by skin contact. Components: cyprodinil (ISO): Species : Species : May cause sensitiser, sub-category 1B. Fludioxonil (ISO): Species : Species : Germ cell mutagenicity Components: Components: Species :			:		
Species:Rabbit :Result:Risk of serious damage to eyes. Respiratory or skin sensitisationProduct:	Result		:	No eye irritation	
Result : Risk of serious damage to eyes. Respiratory or skin sensitisation Product: Species : Guinea pig Result : May cause sensitisation by skin contact. Components: cyprodinil (ISO): Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1B. fludioxonil (ISO): Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1B. fludioxonil (ISO): : Species : Guinea pig Result : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity : Did not cause sensitisation on laboratory animals.					nated and neutralized by caustic soda:
Respiratory or skin sensitisation Product: Species : Guinea pig Result : May cause sensitisation by skin contact. Components: : cyprodinil (ISO): : Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1B. fludioxonil (ISO): : Species : Guinea pig Result : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity : Did not cause sensitisation on laboratory animals.			:		amaga ta ayaa
Product: Species : Guinea pig Result : May cause sensitisation by skin contact. Components: . cyprodinil (ISO): . Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1B. fludioxonil (ISO): . Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1B. fludioxonil (ISO): . Species : Guinea pig Result : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity . Components: .	Result		•	RISK OF Serious a	amage to eyes.
Species Result:Guinea pig May cause sensitisation by skin contact.Components: cyprodinil (ISO): Species Result:Guinea pig :Species Result:Guinea pig :fludioxonil (ISO): Species Result::fludioxonil (ISO): Species Result::Germ cell mutagenicity Components:::	Respiratory or skin sensiti			on	
Result : May cause sensitisation by skin contact. Components:	<u>Produ</u>	<u>ct:</u>			
Components: cyprodinil (ISO): Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1B. fludioxonil (ISO): Species : Guinea pig Result : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity Components:			:		<i></i>
cyprodinil (ISO): Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1B. fludioxonil (ISO): : Species : Guinea pig Result : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity : Components: :	Result		:	May cause sensi	tisation by skin contact.
Species:Guinea pigResult:The product is a skin sensitiser, sub-category 1B.fludioxonil (ISO):	<u>Comp</u>	onents:			
Result : The product is a skin sensitiser, sub-category 1B. fludioxonil (ISO):					
fludioxonil (ISO): Species : Guinea pig Result : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity Components:			:		
Species : Guinea pig Result : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity : Components:	Result		:	The product is a	skin sensitiser, sub-category 1B.
Result : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity Components:	fludio	xonil (ISO):			
Germ cell mutagenicity <u>Components:</u>			:		
Components:	Result		:	Did not cause se	nsitisation on laboratory animals.
	Germ	cell mutagenicity			
	<u>Comp</u>	onents:			
	-				

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	Germ cell mutagenicity- As- sessment		:	Animal testing di	d not show any mutagenic effects.			
	fludio	xonil (ISO):						
	Germ sessm	• •	:	Animal testing di	d not show any mutagenic effects.			
	• •			 ene, butanol, sulfonated and neutralized by caustic soda: In vitro tests did not show mutagenic effects 				
	Carci	nogenicity						
	<u>Comp</u>	oonents:						
	cypro	dinil (ISO):						
	Carcir ment	nogenicity - Assess-	:	No evidence of c	carcinogenicity in animal studies.			
		xonil (ISO):						
	Carcir ment	ogenicity - Assess-	:	No evidence of c	carcinogenicity in animal studies.			
	Repro	oductive toxicity						
	Components:							
	•••	dinil (ISO): ductive toxicity - As- nent	:	No toxicity to rep	production			
	fludio	xonil (ISO):						
	Repro sessm	ductive toxicity - As- nent	:	No toxicity to rep	production			
	STOT	- single exposure						
	<u>Comp</u>	oonents:						
	reacti	on product of naphth	alen	e, butanol, sulfo	nated and neutralized by caustic soda:			
	Asses	sment	:		r mixture is classified as specific target organ exposure, category 3 with respiratory tract			
	STOT	- repeated exposure						
	<u>Comp</u>	onents:						
	cypro	dinil (ISO):						
	Asses	sment	:		r mixture is not classified as specific target epeated exposure.			
	fludio	xonil (ISO):						
		sment	:		r mixture is not classified as specific target epeated exposure.			

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11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

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

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.14 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 1.6 mg/l Exposure time: 72 h
		NOEC (Desmodesmus subspicatus (green algae)): 0.1 mg/l End point: Growth rate Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0.32 mg/l Exposure time: 21 d Species: Oncorhynchus mykiss (rainbow trout) Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 0.01 mg/l Exposure time: 22 d Species: Daphnia magna (Water flea)
Components:		
cyprodinil (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.41 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.033 mg/l Exposure time: 48 h
		LC50 (Americamysis): 0.0081 mg/l Exposure time: 96 h

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	Toxicity to algae/aquatic plants		:	ErC50 (Raphidoce mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 5.2 h
				NOEC (Raphidoce mg/l End point: Growth Exposure time: 72	
				EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 1.78 mg/l ! h
				NOEC (Skeletone Exposure time: 72	ma costatum (marine diatom)): 0.541 mg/l ! h
	M-Facto icity)	or (Acute aquatic tox-	:	10	
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3	
	Toxicity to fish (Chronic tox- icity) Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC: 0.0406 mg Exposure time: 34 Species: Cyprinod	
			:	NOEC: 0.0082 mg Exposure time: 21 Species: Daphnia	
				NOEC: 0.0019 mg Exposure time: 28 Species: America	d
	M-Facto toxicity)	or (Chronic aquatic	:	10	
	fludiox	onil (ISO):			
	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.23 mg/l 5 h
				LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 0.7 mg/l i h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.4 mg/l s h
				EC50 (Americamy Exposure time: 96	
	Toxicity to algae/aquatic plants		:	ErC50 (Raphidoce 0.259 mg/l Exposure time: 96	elis subcapitata (freshwater green alga)): i h

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			EC10 (Raphidoce 0.077 mg/l End point: Growth Exposure time: 96	
			ErC50 (Skeletone Exposure time: 96	ma costatum (marine diatom)): 0.43 mg/l S h
			NOEC (Skeletone End point: Growth Exposure time: 96	
M-Fac icity)	tor (Acute aquatic tox-	:	1	
			M-Factor=1 used	for transport classification
Toxici	ty to microorganisms	:	EC50 (activated s Exposure time: 3	ludge): > 1,000 mg/l h
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: 0.04 mg/l Exposure time: 28 Species: Oncorhy	3 d nchus mykiss (rainbow trout)
			EC10: 0.018 mg/l Exposure time: 11 Species: Pimepha	l6 d ales promelas (fathead minnow)
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC: 0.035 mg/ Exposure time: 21 Species: Daphnia	
			NOEC: 0.018 mg/ Exposure time: 28 Species: America	3 d
	tor (Chronic aquatic	:	10	
toxicit	/)		M-Factor=1 used	for transport classification
	on product of naphtha ty to fish	alen :		ated and neutralized by caustic soda: (zebra fish)): > 100 mg/l S h
	ty to daphnia and other c invertebrates	:	Exposure time: 48	tion given is based on data obtained from
Toxici plants	ty to algae/aquatic	:	200 mg/l Exposure time: 72	lis subcapitata (freshwater green alga)): > 2 h tion given is based on data obtained from

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similar substances.

12.2	Persistence and degradabil	ity	
	Components:		
	cyprodinil (ISO): Biodegradability	:	Result: Not readily biodegradable.
	Stability in water	:	Degradation half life: 141 d Remarks: Product is not persistent.
	fludioxonil (ISO): Biodegradability	:	Result: Not readily biodegradable. Degradation half life: 450 - 700 d
	Stability in water	•	Remarks: Persistent in water.
	reaction product of naphtha Biodegradability	len :	e, butanol, sulfonated and neutralized by caustic soda: Result: Readily biodegradable. Remarks: Information given is based on data obtained from similar substances.
12.3	Bioaccumulative potential		
	Components:		
	cyprodinil (ISO): Bioaccumulation	:	Remarks: Does not bioaccumulate.
	Partition coefficient: n- octanol/water	:	log Pow: 4.0 (25 °C)
	fludioxonil (ISO): Bioaccumulation	:	Remarks: Does not bioaccumulate.
	Partition coefficient: n- octanol/water	:	log Pow: 4.12 (25 °C)
12.4	Mobility in soil		
	Components:		
	cyprodinil (ISO): Distribution among environ- mental compartments Stability in soil	:	Remarks: Cyprodinil has low to slight mobility in soil. Dissipation time: 49 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.
	fludioxonil (ISO): Distribution among environ-	:	Remarks: immobile

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mental compartments Stability in soil		Percentage	 Dissipation time: 14 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent. 			
12.5 Res	ults of PBT and vPvB	assessment				
Proc	duct:					
Asse	essment	to be either very persist	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.			
Con	ponents:					
сурі	rodinil (ISO):					
Asse	essment	lating and to	nce is not considered to be persistent, bioaccumu- oxic (PBT) This substance is not considered to be ent and very bioaccumulating (vPvB).			
flud	ioxonil (ISO):					
Assessment : This substance is not considered to be		nce is not considered to be persistent, bioaccumu- oxic (PBT) This substance is not considered to be ent and very bioaccumulating (vPvB).				
12.6 End	ocrine disrupting pro	perties				
Proc	duct:					
Asse	essment	ered to have REACH Art	nce/mixture does not contain components consid- e endocrine disrupting properties according to icle 57(f) or Commission Delegated regulation			

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.	

levels of 0.1% or higher.

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

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Wast	e Code	dling site for r Do not re-use : uncleaned page	kaging containing residues of or contaminated			
SECTION 14: Transport information						
14.1 UN number or ID number						

ADR	:	UN 3077
RID	:	UN 3077
IMDG	:	UN 3077
ΙΑΤΑ	:	UN 3077
14.2 UN proper shipping name		
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPRODINIL, FLUDIOXONIL)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPRODINIL, FLUDIOXONIL)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPRODINIL, FLUDIOXONIL)
ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s. (CYPRODINIL, FLUDIOXONIL)

14.3 Transport hazard class(es)

		Class	Subsidiary risks
ADR	:	9	
RID	:	9	
IMDG	:	9	
ΙΑΤΑ	:	9	
14.4 Packing group			
ADR			
Packing group	:	III	
Classification Code	:	M7	
Hazard Identification Number	:	90	
Labels	:	9	
Tunnel restriction code	:	(-)	
Remarks	:		subject to exemptions when packa
		a transfer and a second transfer of	and all and an an an and all and a second

aged in single or combination packagings containing a net quantity per

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rsion .1	Revision Date: 18.08.2023	SDS Number: S1269856	Date of last issue: 18.08.2022 Date of first issue: 14.06.2017
			ner packaging of 5 L or less for liquids, or having 5 kg or less for solids.
Class		single or co single or inr	t can be subject to exemptions when packaged mbination packagings containing a net quantity her packaging of 5 L or less for liquids, or having 5 kg or less for solids.
Label	ing group Is Code	single or co single or inr	t can be subject to exemptions when packaged mbination packagings containing a net quantity her packaging of 5 L or less for liquids, or having 5 kg or less for solids.
Packi aircra Packi	ing instruction (LQ) ing group Is	single or co single or inr	us t can be subject to exemptions when packaged mbination packagings containing a net quantity her packaging of 5 L or less for liquids, or having 5 kg or less for solids.
Packi ger ai Packi		single or co single or inr	us t can be subject to exemptions when packaged mbination packagings containing a net quantity her packaging of 5 L or less for liquids, or having 5 kg or less for solids.
5 Envi	ronmental hazards		
	onmentally hazardous	: yes	
RID	opmontally bazardous		

Environmentally hazardous : yes

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Marine pollutant	:	yes	
IATA (Passenger) Environmentally hazardous	:	yes	
IATA (Cargo) Environmentally hazardous	:	ves	

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, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: formaldehyde (Number on list 72, 28) methylcyclohexane
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	• :	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	EN	IVIRONMENTAL 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. Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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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 H317 H318 H332 H335 H400 H410		Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.		
Full text of other abbreviations				
Acute Tox.	:	Acute toxicity		
Aquatic Acute	:	Short-term (acute) aquatic hazard		
Aquatic Chronic	:	Long-term (chronic) aquatic hazard		
Eye Dam.	:	Serious eye damage		
Skin Sens.	:	Skin sensitisation		
STOT SE	:	Specific target organ toxicity - single exposure		
IE OEL	:	Ireland. List of Chemical Agents and Occupational Exposure		
		Limit Values - Schedule 1		
Syngenta	:	Syngenta Occupational Exposure Limit		
IE OEL / OELV - 8 hrs (TWA)	:			
Syngenta / TWA	:	Time weighted average		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; 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 - 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 - (Quanti-

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tative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information					
Classification of the mixture:		Classification procedure:			
Skin Sens. 1	H317	Based on product data or assessment			
Aquatic Acute 1	H400	Based on product data or assessment			
Aquatic Chronic 1	H410	Based on product data or assessment			

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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