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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	:	MAPP 15129

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 UK Limited CPC4, Capital Park Fulbourn, Cambridge CB21 5XE United Kingdom
Telephone	:	+44 (0) 1223 883400
Telefax	:	+44 (0) 1223 882195
E-mail address of person responsible for the SDS	:	customer.services@syngenta.com

1.4 Emergency telephone number

Emergency telephone num- : +44 1484 538444 ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1 Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :	
Signal word :	Warning
Hazard statements :	H317 May cause an allergic skin reaction.H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements :	 Prevention: P261 Avoid breathing dust. P280 Wear protective gloves. Response: P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.
	Disposal: P501 Dispose of contents/container to a licensed hazardous- waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous 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.

May form combustible dust concentrations in air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)



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	Index-No.				
	Registration number				
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	Aquatic Acute 1; H400	>= 25 - < 30		
	608-069-00-4	Aquatic Chronic 1; H410			
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10			
reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda	Not Assigned	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory sys- tem)	>= 1 - < 3		
Substances with a workplace exposure limit :					
diatomite	61790-53-2 293-303-4		>= 10 - < 20		

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.
If inhaled	:	Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respira- tion. Keep patient warm and at rest. Call a physician or poison control centre immediately.
In case of skin contact	:	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.

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In ca	se of eye contact	:	for at least 15 mi Remove contact	
lf swa	allowed	:	If swallowed, see container or labe Do NOT induce	
4.2 Most i	important symptoms	and e	effects, both acut	e and delayed
Symp	otoms	:	Nonspecific No symptoms kn	own or expected.
4.3 Indica	tion of any immediate	e meo		d special treatment needed
Treat	ment	:	There is no spec Treat symptomation	ific antidote available. tically.
SECTION	N 5: Firefighting me	asur	es	
	N 5: Firefighting me	asur	es	
5.1 Exting	guishing media			
5.1 Exting			Extinguishing me Use water spray bon dioxide. Extinguishing me Alcohol-resistant	alcohol-resistant foam, dry chemical or car- edia - large fires
5.1 Exting	guishing media		Extinguishing me Use water spray bon dioxide. Extinguishing me	alcohol-resistant foam, dry chemical or car- edia - large fires
5.1 Exting Suita	guishing media ble extinguishing medi itable extinguishing		Extinguishing me Use water spray, bon dioxide. Extinguishing me Alcohol-resistant or Water spray	alcohol-resistant foam, dry chemical or car- edia - large fires foam
5.1 Exting Suita Unsu media	guishing media ble extinguishing medi itable extinguishing	a : :	Extinguishing me Use water spray bon dioxide. Extinguishing me Alcohol-resistant or Water spray Do not use a soli fire.	alcohol-resistant foam, dry chemical or car- edia - large fires foam d water stream as it may scatter and spread
5.1 Exting Suita Unsu media	guishing media ble extinguishing medi itable extinguishing a al hazards arising fro ific hazards during fire-	a : : •m the	Extinguishing me Use water spray bon dioxide. Extinguishing me Alcohol-resistant or Water spray Do not use a soli fire. Substance or m Fire will spread b As the product co will produce densuted	alcohol-resistant foam, dry chemical or car- edia - large fires foam d water stream as it may scatter and spread
 5.1 Exting Suita Unsu media 5.2 Speci Spec fightin 	guishing media ble extinguishing medi itable extinguishing a al hazards arising fro ific hazards during fire-	a : : •m the	Extinguishing me Use water spray bon dioxide. Extinguishing me Alcohol-resistant or Water spray Do not use a soli fire. Substance or m Fire will spread b As the product co will produce dens ucts of combustion Exposure to deco	alcohol-resistant foam, dry chemical or car- edia - large fires foam d water stream as it may scatter and spread ixture by burning with a visible flame. ontains combustible organic components, fire se black smoke containing hazardous prod- on (see section 10).
 5.1 Exting Suita Unsu media 5.2 Speci Spec fightia 5.3 Advic Spec 	guishing media ble extinguishing medi itable extinguishing a al hazards arising fro ific hazards during fire- ng	a : : • m the - :	Extinguishing me Use water spray bon dioxide. Extinguishing me Alcohol-resistant or Water spray Do not use a soli fire. Substance or m Fire will spread b As the product co will produce dens ucts of combustie Exposure to deco health.	alcohol-resistant foam, dry chemical or car- edia - large fires foam d water stream as it may scatter and spread ixture by burning with a visible flame. ontains combustible organic components, fire se black smoke containing hazardous prod- on (see section 10).

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SECTION 6: Accidental release measures

•	ve equipment and emergency procedures 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 conta	inment 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. Retain and dispose of contaminated wash water.

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	: 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.
	This material can become readily charged in most operations.
	Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
7.2 Conditions for safe storage, i	ncluding any incompatibilities

Requirements for storage	:	Keep containers tightly closed in a dry, cool and well-
areas and containers		ventilated place. Keep out of the reach of children. Keep away
		from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

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Specific use(s) : For proper and safe use of this product, please refer to the 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	TWA (Respirable dust)	1.2 mg/m3	GB EH40

Derived No Effect Level (DNEL):

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 effects	0.137 mg/m3
	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):

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



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		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 features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local condi- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection	:	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate:
Respiratory protection	:	Dust impervious protective suit No personal respiratory protective equipment normally re- quired. When workers are facing concentrations above the exposure

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Prote	ctive measures	: The use of tec over the use o	t use appropriate certified respirators. hnical measures should always have priority f personal protective equipment. g personal protective equipment, seek appro- onal advice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold		granules grey to brown weak No data available
рН	:	9.6 Concentration: 1 %w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Burning number	:	5 (20 °C)
		6 (100 °C)
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1 g/cm3
Bulk density Solubility(ies)	:	0.537 g/cm3
Water solubility Solubility in other solvents	:	No data available No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available

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Dec	composition temperature	:	No data available	9
	cosity Viscosity, kinematic	:	No data available	e e e e e e e e e e e e e e e e e e e
Exp	Explosive properties		Not explosive	
Oxi	Oxidizing properties		The substance o	r mixture is not classified as oxidizing.
Min	er information imum ignition temperature f-heating substances	:	600 °C The substance o	r mixture is not classified as self heating.
Min	imum ignition energy	:	30 - 100 mJ	
Par	ticle size	:	No data available	9

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	:	No dangerous reaction known under conditions of normal use.			

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

10.6 Hazardous decomposition products

Hazardous decomposition : No hazardous decomposition products are known. products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of	:	Ingestion
exposure		Inhalation
		Skin contact
		Eye contact

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Acut	e toxicity			
Prod	luct:			
Acute	e oral toxicity	:	LD50 (Rat, mal	e and female): > 5,000 mg/kg
Acute	e inhalation toxicity	:	Exposure time: Test atmosphe	
Acute	e dermal toxicity	:		e and female): > 2,000 mg/kg he substance or mixture has no acute dermal
Com	ponents:			
cypr	odinil (ISO):			
Acute	e oral toxicity	:	LD50 (Rat, fem	ale): 2,500 mg/kg
Acute	e inhalation toxicity	:	Exposure time: Test atmosphe	
Acute	e dermal toxicity			e and female): > 2,000 mg/kg he substance or mixture has no acute dermal
fludi	oxonil (ISO):			
	e oral toxicity	:	LD50 (Rat, mal	e and female): > 5,000 mg/kg
Acute	e inhalation toxicity		Exposure time: Test atmosphe	
Acute	e dermal toxicity			e and female): > 2,000 mg/kg he substance or mixture has no acute dermal
reac	tion product of naphtl	halene	e, butanol. sulf	onated and neutralized by caustic soda:
	e oral toxicity		LD50 (Rat): 1,8	-
Acute	e inhalation toxicity	:	LC50 (Rat): 4.0 Exposure time: Test atmosphe	4 h
Acute	e dermal toxicity	:	LD50 (Rabbit):	3,000 mg/kg

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Skin corrosion/irritation

<u>Product:</u> Species Result	:	Rabbit No skin irritation
Components:		
cyprodinil (ISO):		
Species Result	:	Rabbit No skin irritation
fludioxonil (ISO):		
Species Result	:	Rabbit 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

reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:		
	:	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.

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fludioxonil (ISO): Species Guinea pig 5 Result Did not cause sensitisation on laboratory animals. • Germ cell mutagenicity Components: cyprodinil (ISO): Germ cell mutagenicity- As-: Animal testing did not show any mutagenic effects. sessment fludioxonil (ISO): Germ cell mutagenicity- As-Animal testing did not show any mutagenic effects. : sessment reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda: Germ cell mutagenicity- As-: In vitro tests did not show mutagenic effects sessment Carcinogenicity **Components:** cyprodinil (ISO): Carcinogenicity - Assess-No evidence of carcinogenicity in animal studies. : ment fludioxonil (ISO): Carcinogenicity - Assess-: No evidence of carcinogenicity in animal studies. ment **Reproductive toxicity Components:** cyprodinil (ISO): Reproductive toxicity - As-No toxicity to reproduction : sessment fludioxonil (ISO): Reproductive toxicity - As-: No toxicity to reproduction sessment STOT - single exposure **Components:** reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda: Assessment The substance or mixture is classified as specific target organ 1 toxicant, single exposure, category 3 with respiratory tract

irritation.

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STO	Г - repeated exposur	e	
<u>Com</u>	ponents:		
cypro	odinil (ISO):		
Asse	ssment		e or mixture is not classified as specific target t, repeated exposure.
fludi	oxonil (ISO):		
Asse	ssment		e or mixture is not classified as specific target t, repeated exposure.

SECTION 12: Ecological information

Aspiration toxicity

12.1 Toxicity

<u>Product:</u> 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

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				Exposure time: 96	3 h
	Toxicity plants	to algae/aquatic	:	ErC50 (Raphidoco mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 5.2 2 h
				NOEC (Raphidoc mg/l End point: Growth Exposure time: 72	
				EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 1.78 mg/l 2 h
				NOEC (Skeletone Exposure time: 72	ema costatum (marine diatom)): 0.541 mg/l 2 h
	M-Facto icity)	or (Acute aquatic tox-	:	10	
	Toxicity	to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.0406 mg Exposure time: 34 Species: Cyprinod	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.0082 mg Exposure time: 21 Species: Daphnia	
				NOEC: 0.0019 mg Exposure time: 28 Species: America	3 d
	M-Factor toxicity)	or (Chronic aquatic	:	10	
	fludiox	onil (ISO):			
	Toxicity	r to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.23 mg/l S h
				LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 0.7 mg/l S h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.4 mg/l 3 h
				EC50 (Americamy Exposure time: 96	
	Toxicity plants	to algae/aquatic	:	ErC50 (Raphidoco 0.259 mg/l	elis subcapitata (freshwater green alga)):

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			Exposure time: 96	6 h
			EC10 (Raphidoce 0.077 mg/l End point: Growth Exposure time: 96	
			ErC50 (Skeletone Exposure time: 96	ema costatum (marine diatom)): 0.43 mg/ 6 h
			NOEC (Skeletone End point: Growth Exposure time: 96	
M-Fac icity)	tor (Acute aquatic tox-	:	1	
		:	M-Factor=1 used	for transport classification
Toxicit	y to microorganisms	:	EC50 (activated s Exposure time: 3	sludge): > 1,000 mg/l h
Toxicity to fish (Chronic tox- icity)		:	NOEC: 0.04 mg/l Exposure time: 28 Species: Oncorhy	8 d /nchus mykiss (rainbow trout)
			EC10: 0.018 mg/l Exposure time: 1 Species: Pimepha	
	y to daphnia and other c invertebrates (Chron- sity)	:	NOEC: 0.035 mg/ Exposure time: 2 Species: Daphnia	
			NOEC: 0.018 mg, Exposure time: 28 Species: America	8 d
	tor (Chronic aquatic	:	10	
toxicity	/)		M-Factor=1 used	for transport classification
	•	len		ated and neutralized by caustic soda:
Toxicit	y to fish	:	LC50 (Danio reric Exposure time: 96	o (zebra fish)): > 100 mg/l 6 h
	y to daphnia and other c invertebrates	:	Exposure time: 48	ation given is based on data obtained fror
Toxicit plants	y to algae/aquatic	:	EC50 (Raphidoce 200 mg/l	elis subcapitata (freshwater green alga)):

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Exposure time: 72 h Remarks: Information given is based on data obtained from similar substances.

12.2 Persistence and degradability

<u>Compo</u>	nents:		
cyprodi	nil (ISO):		
Biodegra	adability	:	Result: Not readily biodegradable.
Stability	in water	:	Degradation half life: 141 d Remarks: Product is not persistent.
fludioxo	onil (ISO):		
Biodegra	adability	:	Result: Not readily biodegradable.
Stability	in water	:	Degradation half life: 450 - 700 d Remarks: Persistent in water.
reactior	n product of naphtha	alen	e, butanol, sulfonated and neutralized by caustic soda:
	adability	:	
diatomi	te:		
Biodegra	adability	:	Result: Not readily biodegradable.
12.3 Bioaccu	umulative potential		
<u>Compo</u>	nents:		
cyprodi	nil (ISO):		
Bioaccu	mulation	:	Remarks: Does not bioaccumulate.
Partition octanol/	coefficient: n- water	:	log Pow: 4.0 (25 °C)
fludioxo	onil (ISO):		
Bioaccu	mulation	:	Remarks: Does not bioaccumulate.
Partition octanol/	coefficient: n- water	:	log Pow: 4.12 (25 °C)
12.4 Mobility	y in soil		
Compo	nents:		
cyprodi	nil (ISO):		
Distribut	tion among environ- compartments	:	Remarks: Cyprodinil has low to slight mobility in soil.

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	ity in soil	:		49 d pation: 50 % (DT50) ct is not persistent.
	oxonil (ISO): bution among environ-	:	Remarks: immob	pile
menta	al compartments ity in soil	:	Dissipation time: Percentage dissi	
12.5 Resu	lts of PBT and vPvB a	sse	ssment	
Prod	uct:			
Asses	ssment	:	: This substance/mixture contains no components cons to be either persistent, bioaccumulative and toxic (PBT very persistent and very bioaccumulative (vPvB) at lev 0.1% or higher.	
Com	oonents:			
cypro	odinil (ISO):			
Asses	ssment	: This substance is not considered to be persistent, be lating and toxic (PBT) This substance is not considered very persistent and very bioaccumulating (vPvB).		PBT) This substance is not considered to be
fludic	oxonil (ISO):			
	ssment	:	: This substance is not considered to be persistent, bid lating and toxic (PBT) This substance is not conside very persistent and very bioaccumulating (vPvB).	
diato	mite:			
Asses	ssment	:	: This substance is not considered to be persistent, bioactive lating and toxic (PBT) This substance is not considered very persistent and very bioaccumulating (vPvB).	
12.6 Othe	r adverse effects			
Produ Endo tial	uct: crine disrupting poten-	:	ered to have enc REACH Article 5	hixture does not contain components consid- locrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: Do not contaminate ponds, waterways or ditches with chemi-

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		Where possib tion. If recycling is i local regulatio	e of waste into sewer. le recycling is preferred to disposal or incinera- not practicable, dispose of in compliance with ns.	
Contaminated packaging		 Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Do not re-use empty containers. 		

SECTION 14: Transport information

14.1	UN number			
	ADR	:	UN 3077	
I	RID	:	UN 3077	
I	MDG	:	UN 3077	
I	ΙΑΤΑ	:	UN 3077	
14.2	UN proper shipping name			
1	ADR	:	ENVIRONMENTALLY N.O.S. (CYPRODINIL, FLUDI	HAZARDOUS SUBSTANCE, SOLID, OXONIL)
I	RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPRODINIL, FLUDIOXONIL)	
I	IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPRODINIL, FLUDIOXONIL)	
I	ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s. (CYPRODINIL, FLUDIOXONIL)	
14.3	Transport hazard class(es)			
			Class	Subsidiary risks
	ADR	:	9	
I	RID	:	9	
I	MDG	:	9	
I	ΙΑΤΑ	:	9	
14.4	Packing group			
I	ADR Packing group Classification Code	:	III M7	

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Labels	l Identification Number restriction code ks	: : :	single or combin single or inner p	n be subject to exemptions when packaged in nation packagings containing a net quantity per ackaging of 5 L or less for liquids, or having a g or less for solids.
Classifi	g group ication Code I Identification Number ks		single or combin single or inner p	n be subject to exemptions when packaged in nation packagings containing a net quantity per ackaging of 5 L or less for liquids, or having a g or less for solids.
IMDG Packing Labels EmS C Remar		:	single or combin single or inner p	n be subject to exemptions when packaged in lation packagings containing a net quantity per ackaging of 5 L or less for liquids, or having a g or less for solids.
aircraft Packing	g instruction (cargo) g instruction (LQ) g group	:	single or combin single or inner p	n be subject to exemptions when packaged in nation packagings containing a net quantity per ackaging of 5 L or less for liquids, or having a g or less for solids.
Packing ger airc Packing	g instruction (LQ) g group	:	single or combin single or inner p	n be subject to exemptions when packaged in nation packagings containing a net quantity per ackaging of 5 L or less for liquids, or having a g or less for solids.
14.5 Enviro	nmental hazards		-	
RID	nmentally hazardous	:	yes yes	

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IMDG	
Marine	pollutar

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

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	 Conditions of restriction for the fol- lowing entries should be considered: formaldehyde (Number on list 72, 28)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	: Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	: Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	: Not applicable
Control of Major Accident Hazards Regulations E1 2015 (COMAH)	ENVIRONMENTAL HAZARDS

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.
H317	:	May cause an allergic skin reaction.

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H318 H332 H335 H400 H410		:	Causes serious e Harmful if inhaled May cause respir Very toxic to aqu Very toxic to aqu	d. ratory irritation.
Full te	xt of other abbrevia	tions		
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Skin Sens. STOT SE GB EH40 Syngenta GB EH40 / TWA Syngenta / TWA			Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Skin sensitisation Specific target organ toxicity - single exposure UK. EH40 WEL - Workplace Exposure Limits Syngenta Occupational Exposure Limit Long-term exposure limit (8-hour TWA reference period) 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 - (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 Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Classification procedure:

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Skin	Sens. 1	H317	Based on product data or assessment
Aqua	tic 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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