

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

1.1 Product identifier

Trade name	:	A20110E
Design code	:	A20110E

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

Use of the	:	Fungicide
Substance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company	:	Syngenta Crop Protection AG Rosentalstrasse 67, Postfach CH-4002 Basel Switzerland
Telephone	:	+41 61 323 11 11
Telefax	:	+41 61 323 12 12
E-mail address of person responsible for the SDS	:	sds.ch@syngenta.com

1.4 Emergency telephone number

Emergency telephone	: +44 1484 538444
number	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Long-term (chronic) aquatic hazard,	H410: Very toxic to aquatic life with long lasting
Category 1	effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H351 Suspected of causing cancer.H410 Very toxic to aquatic life with long lasting effects.



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Precautionary statements :	Prevention:
	 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
	Response:
	P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage.
	Disposal:
	P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

sedaxane

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reactio	EUH208
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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.

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

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



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		608-069-00-4	H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
sedax	kane	874967-67-6 616-235-00-2	Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 2.5 - < 1
brono	pol (INN)	52-51-7 200-143-0 603-085-00-8 01-2119980938	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315	>= 0.025 - • 0.1
			M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
1,2-be	enzisothiazol-3(2H)-oi	ne 2634-33-5 220-120-9 613-088-00-6 01-2120761540	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 -60 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0.025 0.05
			M-Factor (Acute aquatic toxicity): 1	
			specific concentration limit Skin Sens. 1; H317 >= 0,05 %	

For explanation of abbreviations see section 16.



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SECTION 4: First aid measures

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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 respiration. 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.
In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
If swallowed :	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	Nonspecific No symptoms known or expected.
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	There is no specific antidote available.
		Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
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
Unsuitable extinguishing	:	Do not use a solid water stream as it may scatter and spread



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a		fire.	
al hazards arising from	the	e substance or n	nixture
Specific hazards during firefighting		As the product contains combustible organic components will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.	
e for firefighters			
Special protective equipment for firefighters		Wear full protec apparatus.	tive clothing and self-contained breathing
er information	:	courses.	o-off from fire fighting to enter drains or water tainers exposed to fire with water spray.
	10.03.2022 a al hazards arising from fic hazards during hting e for firefighters al protective equipment efighters	10.03.2022 SC al hazards arising from the fic hazards during : hting e for firefighters al protective equipment : efighters	10.03.2022S00026634907afire.al hazards arising from the substance or mfic hazards during hting: As the product or will produce den products of com Exposure to dec health.e for firefighters efighters: Wear full protect apparatus.er information: Do not allow run courses.

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.
6.2 Environmental precautions 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 protection see section 8.							
7.2 Conditions for safe storage, including any incompatibilities							

1.2 Conditions for sale storage	, inc	iuding any incompatibilities
Requirements for storage areas and containers	:	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 Specific end use(s) Specific use(s)	:	For proper and safe use of this product, please refer to the
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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	
fludioxonil (ISO)	131341-86- 1	TWA	5 mg/m3	Syngenta	
titanium dioxide	13463-67-7	TWA (alveolate dust)	3 mg/m3	CH SUVA	
	Further information: National Institute for Occupational Safety and Health, Harm to the unborn child is not to be expected when the OEL-value is respected				
sedaxane	874967-67- 6	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
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local effects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	30 mg/m3
	Workers	Inhalation	Long-term local effects	10 mg/m3
titanium dioxide	Workers	Inhalation	Long-term local effects	10 mg/m3
	Consumers	Oral	Long-term systemic effects	700 mg/kg
bronopol (INN)	Workers	Inhalation	Long-term systemic effects	3.5 mg/m3
	Workers	Inhalation	Acute systemic effects	10.5 mg/m3
	Workers	Inhalation	Long-term local	2.5 mg/m3



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

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

Substance name	Environmental Compartment Value		
propane-1,2-diol	Fresh water	260 mg/l	
	Marine water	26 mg/l	
	Intermittent use/release	183 mg/l	
	Sewage treatment plant	20000 mg/l	
	Marine sediment	57.2 mg/kg	
	Fresh water sediment	572 mg/kg	
	Soil	50 mg/kg	
titanium dioxide	Marine water	0.0184 mg/l	
	Fresh water sediment	1000 mg/kg	
	Fresh water	0.184 mg/l	
	Marine sediment	100 mg/kg	
	Soil	100 mg/kg	
	Sewage treatment plant	100 mg/l	



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	Intermittent use/release	0.193 mg/l
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
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

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 Hand protection	:	No special protective equipment required.
Material	:	Nitrile rubber

Break through time Glove thickness		> 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 conditions 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.

The selected protective gloves have to satisfy the



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Skin and body protection		EN 374 derived Choose body p concentration a the specific wo Remove and w Wear as appro Impervious clot	rotection in relation to its type, to the and amount of dangerous substances, and to rk-place. ash contaminated clothing before re-use. priate: hing
Respiratory protection		required. When workers	spiratory protective equipment normally are facing concentrations above the exposure use appropriate certified respirators.
Prote	ctive measures	: The use of tech over the use of When selecting	personal protective equipment, seek personal advice.

Environmental exposure controls

Water

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

:

Physical state Colour Odour Odour Threshold	:	suspension pink reddish 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	:	615 °C



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	Decom	position temperature	:	No data available	e
	рH		:	7.5 - 9.5 Concentration: 1	00 % w/v
	Viscosi Visc	ty cosity, dynamic	:	70.1 - 220 mPa.s	s (20 °C)
				59.7 - 189 mPa.s	s (40 °C)
	Viso	cosity, kinematic	:	No data available	e
		ity(ies) ter solubility ubility in other solvents	:	No data available No data available	-
		n coefficient: n-	:	No data available	e
	octano Vapou	r pressure	:	No data available)
	Density	/	:	1.08 g/cm3 (25 °	C)
	Relativ	e vapour density	:	No data available	e
		e characteristics ticle size	:	No data available	e
9.2 (Other ir	nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ration rate	:	No data available	e

SECTION 10: Stability and reactivity

	Reactivity None reasonably foreseeable.		
10.2	Chemical stability Stable under normal conditions		
10.3	Possibility of hazardous read	tio	ns
	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.



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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
Acute toxicity	
Product:	
Acute oral toxicity :	LD50 (Rat, female): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity :	LC50 (Rat, male and female): > 5.06 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity :	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Components:	
fludioxonil (ISO):	
Acute oral toxicity :	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity :	LC50 (Rat, male and female): > 2.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity :	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity



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sedax Acute	oral toxicity		LD50 (Rat, fema	le): 5 000 ma/ka
	inhalation toxicity	:	LC50 (Rat, male Exposure time: 4 Test atmosphere	and female): > 5.244 mg/l 4 h e: dust/mist e substance or mixture has no acute
Acute	dermal toxicity	:	LD50 (Rat, male	and female): > 5,000 mg/kg
brond	opol (INN):			
Acute	oral toxicity	:	Assessment: Th single ingestion.	e component/mixture is moderately toxic after
Acute	dermal toxicity	:	Assessment: Th single contact w	e component/mixture is moderately toxic aft th skin.
1,2-be	enzisothiazol-3(2H)-	one:		
Acute	oral toxicity	:	LD50 (Rat, male): 670 mg/kg
Acute	dermal toxicity	:		and female): > 2,000 mg/kg e substance or mixture has no acute dermal
Skin	corrosion/irritation			
<u>Produ</u>	uct:			
Speci		:	Rabbit	
Resul	t	:	No skin irritation	
<u>Comp</u>	oonents:			
	oxonil (ISO):			
Speci Resul		:	Rabbit No skin irritation	
sedax	kane:			
Speci		:	Rabbit	
Resul	t	:	No skin irritation	
brond	opol (INN):			
Resul	t	:	Irritating to skin.	
1,2-be	enzisothiazol-3(2H)-	one:		
Speci		:	Rabbit	
Resul	t	:	Mild skin irritatio	n



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: Rabbit

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Serious eye damage/eye irritation

Product: Species

Result	:	No eye irritation
Components:		
fludioxonil (ISO):		
Species	:	Rabbit
Result	:	No eye irritation
sedaxane:		
Species	:	Rabbit

	-	
Result	:	No eye irritation

bronopol (INN):

Result	:	Risk of serious damage to eyes.
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1,2-benzisothiazol-3(2H)-one:

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

Respiratory or skin sensitisation

Product:

Test Type :	mouse lymphoma cells
Species :	Mouse
Result :	Did not cause sensitisation on laboratory animals.

Components:

fludioxonil (ISO):

Species	:	Guinea pig
Result	:	Did not cause sensitisation on laboratory animals.

sedaxane:

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Result	:	Not a skin sensitizer.

1,2-benzisothiazol-3(2H)-one:

Result :		Probability or evidence of skin sensitisation in humans
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Germ	cell mutagenicity			
<u>Comp</u>	oonents:			
fludio	xonil (ISO):			
	cell mutagenicity- sment	:	Animal testing	did not show any mutagenic effects.
sedax	ane:			
	cell mutagenicity- sment	:	Animal testing	did not show any mutagenic effects.
1,2-be	enzisothiazol-3(2H)-o	one:		
	cell mutagenicity- sment		Weight of evid cell mutagen.	ence does not support classification as a ger
Carci	nogenicity			
<u>Comp</u>	oonents:			
fludio	oxonil (ISO):			
	nogenicity - sment	:	No evidence o	f carcinogenicity in animal studies.
sedax	ane:			
	nogenicity - ssment		carcinogen, At incidences of u female rats) ar range of norma unrelated to tro taken a more of findings are tro	ence does not support classification as a extremely high doses, numerically higher uterine, thyroid and liver tumors (male and/or nd liver tumors (male mice) were within the al background variation and thus considered eatment. Some Regulatory Authorities have conservative position that these high-dose eatment-related in rats and mice. The dose nese findings occur are not relevant to humar ls.
Repro	oductive toxicity			
Comp	oonents:			
fludio	oxonil (ISO):			
Repro	ductive toxicity - sment	:	No toxicity to r	eproduction
sedax	kane:			
•	ductive toxicity -	:	No toxicity to r	eproduction



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STOT	- single exposure		
<u>Com</u>	oonents:		
	opol (INN): ssment		e or mixture is classified as specific target organ e exposure, category 3 with respiratory tract
STOT	- repeated exposur	9	
Com	oonents:		
seda Asses	kane: ssment		e or mixture is not classified as specific target , repeated exposure.
1.2 Infor	mation on other haz	ards	
Endo	crine disrupting pro	perties	
Produ	uct:		
Asses	ssment	considered to to REACH Art	e/mixture does not contain components have endocrine disrupting properties according icle 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 17.9 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna Straus): > 100 mg/l Exposure time: 48 h	
Toxicity to algae/aquatic plants		ErC50 (Raphidocelis subcapitata (freshwater green alga)): 16.6 mg/l Exposure time: 96 h	
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 4.88 mg/l End point: Growth rate Exposure time: 96 h	
		EC10 (Raphidocelis subcapitata (freshwater green alga)): 7.16 mg/l	



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			End point: Growtl Exposure time: 9	
Com	ponents:			
	oxonil (ISO): city to fish	:	LC50 (Oncorhyno Exposure time: 9	chus mykiss (rainbow trout)): 0.23 mg/l 6 h
			LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 0.7 mg/l 6 h
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 0.4 mg/l 8 h
			EC50 (Americam Exposure time: 9	
Toxic plant	city to algae/aquatic s	:	ErC50 (Raphidoc 0.259 mg/l Exposure time: 9	elis subcapitata (freshwater green alga)): 6 h
			EC10 (Raphidoce 0.077 mg/l End point: Growtl Exposure time: 9	
			ErC50 (Skeletone Exposure time: 9	ema costatum (marine diatom)): 0.43 mg/l 6 h
			NOEC (Skeletone End point: Growth Exposure time: 9	
M-Fa toxic	actor (Acute aquatic ity)	:	1	
			M-Factor=1 used	for transport classification
Toxic	city to microorganisms	:	EC50 (activated s Exposure time: 3	sludge): > 1,000 mg/l h
Toxic toxic	city to fish (Chronic ity)	:	NOEC: 0.04 mg/l Exposure time: 24 Species: Oncorhy	
			NOEC: 0.018 mg Exposure time: 1 Species: Pimepha	
Toxic	city to daphnia and other	:	NOEC: 0.035 mg	/I



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	aquatic invertebrates (Chronic toxicity)		Exposure time: 2 Species: Daphnia	1 d magna (Water flea)
			NOEC: 0.018 mg Exposure time: 26 Species: America	3 d
M-Fact toxicity	tor (Chronic aquatic	:	10	
sedaxa	ane:		M-Factor=1 used	for transport classification
Toxicit	y to fish	:	LC50 (Cyprinus o Exposure time: 90	arpio (Carp)): 0.62 mg/l 5 h
			LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 0.98 mg/l 5 h
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): 6.10 mg/l 3 h
Toxicity plants	y to algae/aquatic	:	ErC50 (Raphidoc mg/l Exposure time: 9	elis subcapitata (freshwater green alga)): 3 5 h
			NOEC (Raphidoo mg/l End point: Growth Exposure time: 90	
			ErC50 (Lemna gi Exposure time: 7	oba (gibbous duckweed)): 6.5 mg/l d
			NOEC (Lemna gi End point: Growth Exposure time: 7	
M-Fact toxicity	tor (Acute aquatic	:	1	
Toxicity toxicity	y to fish (Chronic ')	:	Exposure time: 3	
aquatio	y to daphnia and other c invertebrates ic toxicity)	:	NOEC: 0.82 mg/l Exposure time: 2 Species: Daphnia	1 d magna (Water flea)
brono	pol (INN):			
Toxicity plants	y to algae/aquatic	:	NOEC (algae): 0. Exposure time: 72	



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				EC50 (algae): 0.068 mg/l Exposure time: 72 h
	M-Factor toxicity)	or (Acute aquatic	:	10
	M-Factor toxicity)	or (Chronic aquatic	:	1
	1,2-ber	nzisothiazol-3(2H)-on	e:	
	Toxicity		:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.18 mg/l Exposure time: 96 h
		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.94 mg/l Exposure time: 48 h
	Toxicity plants	v 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-Factor 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)
	aquatic	to daphnia and other invertebrates c toxicity)	:	NOEC: 1.7 mg/l Exposure time: 21 d Species: Daphnia (water flea)
12.2	Persist	tence and degradabil	ity	,
	Compo	onents:		
	fludiox	onil (ISO):		
		radability	:	Result: Not readily biodegradable.
	-	/ in water	:	Degradation half life: 450 - 700 d Remarks: Persistent in water.
	codova			
	sedaxa Biodegi	ne: radability	:	Result: Not readily biodegradable.
	Stability	/ in water	:	Degradation half life: > 1 y



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		Remark	ks: Persistent in water.
brond	opol (INN):		
	gradability	: Result:	Readily biodegradable.
1,2-b	enzisothiazol-3(2H)-on	e:	
Biode	gradability	: Result:	rapidly degradable
12.3 Bioad	ccumulative potential		
Com	oonents:		
	xonil (ISO): cumulation	: Remark	ks: Does not bioaccumulate.
	on coefficient: n- ol/water	: log Pov	v: 4.12 (25 °C)
sedax	kane:		
Bioac	cumulation	: Remark	ks: Does not bioaccumulate.
	on coefficient: n- ol/water	: log Pov	v: 3.3 (25 °C)
	enzisothiazol-3(2H)-on		
Bioac	cumulation	: Remark	ks: Bioaccumulation is unlikely.
12.4 Mobi	lity in soil		
Com	oonents:		
fludic	oxonil (ISO):		
	oution among	: Remark	ks: immobile
	onmental compartments ity in soil	: Dissipa	tion time: 14 d
		Percen	tage dissipation: 50 % (DT50) ks: Product is not persistent.
sedax	kane:		
	oution among onmental compartments	: Remark	ks: Low to medium mobility in soil.
Stability in soil		Percen	tion time: 83 d tage dissipation: 50 % (DT50) <s: is="" not="" persistent.<="" product="" td=""></s:>
12.5 Resu	Its of PBT and vPvB as		
Produ	uct:		
	ssment	to be ei	bstance/mixture contains no components considered ther persistent, bioaccumulative and toxic (PBT), or

very persistent and very bioaccumulative (vPvB) at levels of



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			0.1% or higher.		
<u>Con</u>	ponents:				
flud	ioxonil (ISO):				
Asse	essment	:	bioaccumulating	s not considered to be persistent, and toxic (PBT) This substance is not every persistent and very bioaccumulating	
seda	axane:				
Asse	essment	:	bioaccumulating	s not considered to be persistent, and toxic (PBT) This substance is not every persistent and very bioaccumulating	
1,2-	benzisothiazol-3(2H)-c	one:			
Asse	essment	:	bioaccumulating	s not considered to be persistent, and toxic (PBT) This substance is not every persistent and very bioaccumulating	
12.6 End	ocrine disrupting pro	pertie	es		
Pro	duct:				
Asse	essment	:	considered to ha to REACH Articl	nixture does not contain components ave endocrine disrupting properties according e 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at r higher.	
40 7 Oth	ar advaraa offaata				

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



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handling site for recycling or disposal. Do not re-use empty containers.

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 SEDAXANE)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL AND SEDAXANE)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL AND SEDAXANE)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL AND SEDAXANE)
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (FLUDIOXONIL AND SEDAXANE)
14.3 Transport hazard class(es)		
ADN	:	9
ADR	:	9
RID	:	9
IMDG	:	9
ΙΑΤΑ	:	9
14.4 Packing group		
ADN Packing group Classification Code Hazard Identification Number Labels ADR	- - - -	III M6 90 9



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Hazard Labels	group cation Code Identification Number restriction code	:	III M6 90 9 (-)
	group cation Code Identification Number	: :	III M6 90 9
IMDG Packing Labels EmS Co		:	III 9 F-A, S-F
IATA (C Packing aircraft)	instruction (cargo	:	964
	instruction (LQ)	:	Y964 III Miscellaneous
Packing (passen	Passenger) instruction ger aircraft) instruction (LQ) group	:	964 Y964 III Miscellaneous
14.5 Enviro	nmental hazards		
ADN Environ	mentally hazardous	:	yes
ADR Environ	mentally hazardous	:	yes
RID Environ	mentally hazardous	:	yes
IMDG Marine	pollutant	:	yes
	Passenger) mentally hazardous	:	yes
IATA (C Environ	Cargo) mentally 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.



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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 following entries should be considered: Number on list 3 xylene
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 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
PIC Ordinance, ChemPICO (814.82)	:	
Seveso III: Directive 2012/18/EU of the European Parlia major-accident hazards involving dangerous substances		t and of the Council on the control of

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	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.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Article 13 Maternity ordinance (SR 822.111.52): Expectant and nursing mothers are only permitted to come into contact with this product during the course of their work if, based on a risk assessment carried out in accordance with Article 63 of Ordinance 1 on the Employment Act (ArGV 1) (SR 822.111), the chemicals in question have been found not to cause any specific harm to mothers or children or if such harm can be ruled out by taking appropriate protective measures.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2): Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product. Employees of either sex who are under 18 years old are classed as young people.



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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	:	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.
H335	:	May cause respiratory irritation.
H351	:	Suspected of causing cancer.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.
Full text of other abbreviation	าร	
Full text of other abbreviation Acute Tox.	1 S :	Acute toxicity
	ns : :	Acute toxicity Short-term (acute) aquatic hazard
Acute Tox.	ns : :	
Acute Tox. Aquatic Acute	ns : : :	Short-term (acute) aquatic hazard
Acute Tox. Aquatic Acute Aquatic Chronic	ns : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard
Acute Tox. Aquatic Acute Aquatic Chronic Carc.	ns : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Carcinogenicity
Acute Tox. Aquatic Acute Aquatic Chronic Carc. Eye Dam.	ns : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Carcinogenicity Serious eye damage
Acute Tox. Aquatic Acute Aquatic Chronic Carc. Eye Dam. Skin Irrit.	ns : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Carcinogenicity Serious eye damage Skin irritation Skin sensitisation Specific target organ toxicity - single exposure
Acute Tox. Aquatic Acute Aquatic Chronic Carc. Eye Dam. Skin Irrit. Skin Sens.	ns : : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Carcinogenicity Serious eye damage Skin irritation Skin sensitisation

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



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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; 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 mixtur	e:	Classification procedure:
Carc. 2	H351	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.

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