according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Corteva Agriscience[™] encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Ireland and may not meet the regulatory requirements in other countries.

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

1.1 Product identifier

Trade name

: SEQUOIA™

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

Use of the Sub-	:	Plant Protection Product, Insecticide
stance/Mixture		

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION

Manufacturer/importer Corteva Agriscience UK Limited Melbourn Science Park - Cambridge Road - Unit H4, Building H Melbourn Cambridgeshire - SG8 6HB UNITED KINGDOM

Customer Information	:	+44 8006 89 8899
Number		
E-mail address	:	SDS@corteva.com

1.4 Emergency telephone number

SGS: +353 818 663 627

National Poisons Information Centre (Beaumont Hospital): 01 809 2166 (8 AM - 10 PM)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

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2.2 Label el	2.2 Label elements								
	ng (REGULATION (EC pictograms	C) No 127	72/2008)						
Hazard	statements	: H411	Toxic to ac	quatic life with long lasting effects.					
Precau	tionary statements	P391 Dispo P501 posal	Dispose of contractor of containers v	llage. contents/container to a licensed waste dis- collection site except for empty clean triple which can be disposed of as non-hazardous					

Additional Labelling

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

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

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	REACH Registration		
	number		
sulfoxaflor (ISO)	946578-00-3	Acute Tox. 4; H302	11.41
		Aquatic Acute 1;	

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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			616-217-00-4	H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
polymer,	n(s) - Sulfonated arc sodium salt for 00578, 3000000002		Not Assigned	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 1 - < 2.5
1,2-benz	isothiazol-3(2H)-one	e	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1; H317 >= 0.05 %	>= 0.0025 - < 0.025

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders	:	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
If inhaled	:	Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respi- ration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
In case of skin contact	:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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I	In case of eye contact	:	20 minutes. Reminutes, then o	n and rinse slowly and gently with water for 15- emove contact lenses, if present, after the first 5 continue rinsing eyes. Call a poison control or for treatment advice.
I	If swallowed	:	No emergency	medical treatment necessary.
4.2 Most important symptoms and e None known.			ffects, both ac	ute and delayed
4.3 In	ndication of any immed	iate med	ical attention a	and special treatment needed
T	Treatment	:	symptoms and Have the Safet tainer or label	idote. xposure should be directed at the control of the clinical condition of the patient. ty Data Sheet, and if available, the product con- with you when calling a poison control center or g for treatment.
SEC	TION 5: Firefighting r	neasure	es	
5.1 E	xtinguishing media			
	Suitable extinguishing me	edia :	Water spray Alcohol-resista	nt foam
	Unsuitable extinguishing media	:	None known.	
5.2 S	pecial hazards arising	from the	substance or	mixture
S	Specific hazards during fi fighting			mbustion products may be a hazard to health.

Hazardous combustion prod ucts	- :	During a fire, smoke may contain the original material in addi- tion to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon oxides Nitrogen oxides (NOx) Hydrogen fluoride Sulphur oxides
-----------------------------------	-----	--

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Equipment should conform to EN 12942
Specific extinguishing meth- ods	:	Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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		Use water spra	y to cool unopened containers.
Further information			ing measures that are appropriate to local cir- d the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use appropriate safety equipment. For additional information,
		refer to Section 8, Exposure Controls and Personal Protection.

6.2 Environmental precautions

Environmental precautions	 If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
---------------------------	---

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Clean up remaining materials from spill with suitable absorb- ant. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over- pressurization of the container. Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Neutralize with chalk, alkali solution or ammonia. See Section 13, Disposal Considerations, for additional infor- mation.
-------------------------	---	---

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Advice on safe handling		H S T e U	Do not breathe mist or vapours. Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the ap- plication area. Take care to prevent spills, waste and minimize release to the environment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection		
7.2 Condi	tions for safe storage,	inclue	ding any incom	patibilities	
	rements for storage and containers				
Advic	e on common storage	ge : Do not store near acids. Strong oxidizing agents			
Packa	aging material	: L	Jnsuitable materi	al: None known.	
-	ic end use(s) fic use(s)		Plant protection p 1107/2009.	roducts subject to Regulation (EC) No	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propylene glycol	57-55-6	Occupational exposure limit value (8-hour reference period) (particles)	10 mg/m3	IE OEL
		Öccupational exposure limit value (8-hour reference period) (total (vapour and particles))	150 ppm 470 mg/m3	IE OEL
Cellulose	9004-34-6	Occupational exposure limit value (8-hour reference period)	10 mg/m3	IE OEL

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

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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rsion)	Revision Date: 08.04.2024	SDS Nur 8000800		e of last issue: - e of first issue: 08.04.2024				
Propylene glycol		Workers	Skin contact	Acute systemic ef- fects				
	Remarks:No data available							
		Workers	Inhalation	Acute systemic ef- fects				
		Remarks:No d	ata available					
		Workers	Skin contact	Acute local effects				
		Remarks:No d	ata available	·				
		Workers	Inhalation	Acute local effects				
		Remarks:No d	ata available					
		Workers	Skin contact	Long-term systemic effects				
		Remarks:No d	ata available					
		Workers	Inhalation	Long-term systemic effects	168 mg/m3			
		Workers	Skin contact	Long-term local ef- fects				
		Remarks:No data available						
		Workers	Inhalation	Long-term local ef- fects	10 mg/m3			
		Consumers	Skin contact	Acute systemic ef- fects				
		Remarks:No d	ata available		•			
		Consumers	Inhalation	Acute systemic ef- fects				
		Remarks:No d	ata available	·				
		Consumers	Skin contact	Acute local effects				
		Remarks:No d	ata available		•			
		Consumers	Inhalation	Acute local effects				
		Remarks:No d	ata available	·				
		Consumers	Skin contact	Long-term systemic effects				
		Remarks:No d	ata available	1	•			
		Consumers	Inhalation	Long-term systemic effects	50 mg/m3			
		Consumers	Skin contact	Long-term local ef- fects				
		Remarks:No d	ata available	· · ·				
		Consumers	Inhalation	Long-term local ef- fects	10 mg/m3			

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

Substance name	Environmental Compartment	Value
Propylene glycol	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry weight (d.w.)
	Marine sediment	57.2 mg/kg dry weight (d.w.)
	Soil	50 mg/kg dry

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			weight (d.w.)	

8.2 Exposure controls

Engineering measures

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Personal protective equipment

Eye/face protection	:	Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.	
Hand protection			
Remarks	:	Chemical protective gloves should not be needed when han- dling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.	
Skin and body protection	:	No precautions other than clean body-covering clothing should be needed.	
Respiratory protection	:	Respiratory protection should be worn when there is a poten- tial to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guide- lines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be need- ed; however, if discomfort is experienced, use an approved air-purifying respirator.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid.
Colour	:	Tan
Odour	:	Mild
Odour Threshold	:	No data available
Melting point/range	:	Not applicable

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Fr	eezing point	No data availa	ble
Во	biling point/boiling range	: No data availa	ble
FI	ammability	: Not applicable	to liquids
	oper explosion limit / Upper Immability limit	· : No data availa	ble
	ower explosion limit / Lower Immability limit	: No data availa	ble
FI	ash point	: > 100 °C Method: Pensł GLP: yes	y-Martens Closed Cup ASTM D 93, closed cup
Au	uto-ignition temperature	: 380 °C Method: EC M	ethod A15
pŀ	1	: 3.81 (24.8 °C) Method: pH El GLP: yes 1% Aqueous s	
Vi	scosity Viscosity, dynamic	: Non-Newtonia	n fluid.
So	blubility(ies) Water solubility	: No data availa	ble
Va	apour pressure	: No data availa	ble
R	elative density	: No data availa	ble
D	ensity	: 1.057 g/cm3 (2 Method: OECI GLP: yes	
R	elative vapour density	: No data availa	ble

9.2 Other information

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Explo	sives	: Not explo	sive
Oxidiz	zing properties	: No signific GLP: yes	ant increase (>5C) in temperature.
Evapo	oration rate	: No data a	vailable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

No decomposition if stored and applied as directed. Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
		None known.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid

: Strong acids Strong bases

10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon oxides Nitrogen oxides (NOx) Hydrogen fluoride Sulphur oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

:

Acute toxicity

Product:

Acute oral toxicity

LD50 (Rat, male and female): > 5,000 mg/kg GLP: yes Remarks: For similar material(s):

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Acute	Acute inhalation toxicity :		 > 2.21 mg/l he: 4 h here: dust/mist No deaths occurred at this concentration. The substance or mixture has no acute inhala- r similar material(s): rainable concentration.
Acute	e dermal toxicity	GLP: yes	nale and female): > 5,000 mg/kg r similar material(s):
<u>Com</u>	ponents:		
sulfo	exaflor (ISO):		
	e oral toxicity	Remarks: Ob	emale): 1,000 mg/kg oservations in animals include: ms or twitches.
Acute	e inhalation toxicity	Symptoms: 1 Attainable Co tration.	> 2.09 mg/l here: dust/mist The LC50 value is greater than the Maximum oncentration., No deaths occurred at this concen- The substance or mixture has no acute inhala-
Acute	e dermal toxicity	Symptoms: N	> 5,000 mg/kg No deaths occurred at this concentration. The substance or mixture has no acute dermal
Unkr	nown(s) - Sulfonated :	aromatic polymer	sodium salt for 300000000578, 300000000299:
	e oral toxicity	• •	> 5,000 mg/kg
1.2-b	enzisothiazol-3(2H)-c	one:	
	e oral toxicity	: LD50 (Rat, m	nale): 454 mg/kg CD Test Guideline 401
Acute	e inhalation toxicity	Exposure tim Test atmospl Method: OE0	nale and female): 0.25 mg/l ne: 4 h nere: dust/mist CD Test Guideline 403 Breathing difficulties

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Acute	dermal toxicity	:	LD50 (Rabbit):	> 5,000 mg/kg
Skin	corrosion/irritation			
Produ	uct:			
Speci		:	Rabbit	
Metho		:	OECD Test Gu	
Resul	t	:	No skin irritatio	n
<u>Comp</u>	oonents:			
sulfo	xaflor (ISO):			
Speci		:	Rabbit	
Resul	t	:	No skin irritatio	n
Unkn	own(s) - Sulfonated	arom	atic polymer, so	dium salt for 30000000578, 30000000299:
Resul	t	:	No skin irritatio	n
1,2-be	enzisothiazol-3(2H)-	one:		
Speci	. ,	:	Rabbit	
Metho		:	OECD Test Gu	ideline 404
Resul	t	:	Skin irritation	
Serio	us eye damage/eye	irritati	on	
<u>Prod</u> u	uct:			
Speci	es	:	Rabbit	
Metho	bd	:	OECD Test Gu	ideline 405
<u>Comp</u>	oonents:			
sulfo	xaflor (ISO):			
Speci	es	:	Rabbit	
Resul	t	:	No eye irritatior	1
Unkn	own(s) - Sulfonated	arom	atic polymer, so	dium salt for 30000000578, 30000000299:
Resul	t	:	Eye irritation	
1,2-be	enzisothiazol-3(2H)-	one:		
Speci	· · /	:	Rabbit	
Resul		:	Corrosive	
Respi	iratory or skin sensi	itisatio	on	
<u>Produ</u>	uct:			
Test 1		:	Local lymph no	de assay
Speci		:	Mouse	

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	Assessment : Method : Remarks :		:	 Does not cause skin sensitisation. OECD Test Guideline 429 For similar material(s): 				
	Compo	onents:						
	sulfoxa	aflor (ISO):						
	Specie: Assess		:	Mouse Does not cause sl	kin sensitisation.			
	1,2-ber	nzisothiazol-3(2H)-on	e:					
	Test Ty Species Methoo Result	/pe s	:	Local lymph node Guinea pig OECD Test Guide The product is a s				
	Germ o	cell mutagenicity						
	Compo	onents:						
		aflor (ISO): cell mutagenicity- As- ent	:	In vitro genetic to toxicity studies we	xicity studies were negative., Animal genetic ere negative.			
		enzisothiazol-3(2H)-one: a cell mutagenicity- As- : ment		Not mutagenic wh tems.	nen tested in bacterial or mammalian sys-			
	Carcin	ogenicity						
	Compo	onents:						
		aflor (ISO): ogenicity - Assess-	:		er in laboratory animals., However, the ef- specific and are not relevant to humans.			
	Reproc	ductive toxicity						
	Compo	onents:						
		aflor (ISO): luctive toxicity - As- ent	:	tion., However, the relevant to human human dose level Has caused birth laboratory animals mals caused decr	has been shown to interfere with reproduc- e effects are species specific and are not ns., These concentrations exceed relevant s. defects in lab animals at high doses., In s, excessive doses toxic to the parent ani- eased weight and survival of offspring., cts are species specific and are not relevant			

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1,2	-benzisothiazol-3(2H)-on	e:				
	Reproductive toxicity - As- sessment		 In animal studies, did not interfere with reproduction., In mal studies, did not interfere with fertility. Did not cause birth defects in laboratory animals. 			
ST	OT - single exposure					
Pro	oduct:					
As	sessment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.		
<u>Co</u>	mponents:					
su	lfoxaflor (ISO):					
As	sessment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.		
Un	known(s) - Sulfonated ar	om	atic polymer, sodi	um salt for 300000000578, 30000000299:		
As	sessment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.		
1,2	-benzisothiazol-3(2H)-on	e:				
As	sessment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.		
ST	OT - repeated exposure					
Pro	oduct:					
As	sessment	:	Evaluation of avai an STOT-RE toxic	lable data suggests that this material is not cant.		
Re	peated dose toxicity					
<u>Co</u>	mponents:					
su	foxaflor (ISO):					
Re	marks	:	In animals, effects gans: Liver.	s have been reported on the following or-		
1,2	-benzisothiazol-3(2H)-on	e:				
	marks	:		e data, repeated exposures are not antici- nificant adverse effects.		

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Aspiration toxicity

Product:

Based on physical properties, not likely to be an aspiration hazard.

Components:

sulfoxaflor (ISO):

Based on physical properties, not likely to be an aspiration hazard.

Unknown(s) - Sulfonated aromatic polymer, sodium salt for 30000000578, 30000000299: Based on physical properties, not likely to be an aspiration hazard.

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

Based on physical properties, not likely to be an aspiration hazard.

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 :	Remarks: Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensi- tive species).
	LC50 (Oncorhynchus mykiss (rainbow trout)): > 840 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 840 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
	LC50 (saltwater mysid Mysidopsis bahia): 3.79 mg/l Exposure time: 96 h Test Type: semi-static test

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			Method: OECD T	est Guideline 202 or Equivalent	
	Toxicity to algae/aquatic plants		ErC50 (diatom Na End point: Growth Exposure time: 72 Test Type: static to Method: OECD To	2 h test	
Toxici ganisr	ty to soil dwelling or- ms	:	LC50: 5.527 mg/kg Exposure time: 14 d End point: survival Species: Eisenia fetida (earthworms)		
Toxici isms	ty to terrestrial organ-	:	Remarks: Materia basis (LD50 > 200	Il is practically non-toxic to birds on an acute 00 mg/kg).	
			oral LD50: > 2000 mg/kg bodyweight. End point: mortality Species: Colinus virginianus (Bobwhite quail) Method: Other guidelines		
			contact LD50: 2.3 Exposure time: 48 Species: Apis me	3 h	
			oral LD50: 0.539 Exposure time: 48 Species: Apis me	3 ĥ	
	oxicology Assessment aquatic toxicity	:	Toxic to aquatic li	fe.	
	ic aquatic toxicity	:		fe with long lasting effects.	
Comp	oonents:				
sulfo	xaflor (ISO):				
Toxici	ty to fish	:	Exposure time: 96 Test Type: static f		
			LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): > 363 mg/l 5 h	
			EC50 (Cyprinus c Exposure time: 96	arpio (Carp)): > 402 mg/l ∂ h	
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Test Type: static		

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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				LC50 (Chironomu Exposure time: 96	s sp. (midge)): 0.622 mg/l 5 h
	Toxicity plants	v to algae/aquatic	:	mg/l Exposure time: 96 Test Type: static t	
				ErC50 (Lemna gib Exposure time: 7 o	
	M-Facto icity)	or (Acute aquatic tox-	:	1	
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC: > 12.9 mg End point: mortalit Exposure time: 30 Species: Pimepha Test Type: flow-th	ty) d Iles promelas (fathead minnow)
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC: 50.5 mg/l End point: growth Exposure time: 21 Species: Daphnia Test Type: semi-s	magna (Water flea)
				Test Type: flow-th	r of offspring d r mysid Mysidopsis bahia
	M-Facto toxicity)	or (Chronic aquatic	:	1	
	Toxicity ganism	r to soil dwelling or- s	:	LC50: 0.885 mg/k Species: Eisenia f	g etida (earthworms)
	Toxicity isms	v to terrestrial organ-	:		620 mg/kg bodyweight. ⁄irginianus (Bobwhite quail)
				oral LD50: 676 mg Species: Colinus v	g/kg virginianus (Bobwhite quail)
				oral LD50: 0.146 r Exposure time: 48 Species: Apis mel	3 h
				contact LD50: 0.5 Exposure time: 48	39 micrograms/bee 3 d

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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			Species: Apis me	llifera (bees)
Ecoto	oxicology Assessment			
Acute	aquatic toxicity	:	Very toxic to aqua	atic life.
Chror	nic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
Unkn	own(s) - Sulfonated ar	oma	atic polymer, sodi	um salt for 30000000578, 30000000299
Toxic	ity to fish	:		Il is harmful to aquatic organisms) between 10 and 100 mg/L in the most ser
			LC50 (Danio reric Exposure time: 96 Method: OECD T	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxic plants	ity to algae/aquatic	:	(Pseudokirchneri Exposure time: 72 Method: OECD T	
	ity to daphnia and other ic invertebrates (Chron- icity)		EC10: > 10 - 100 Exposure time: 2 Species: Daphnia Method: OECD T	1 d magna (Water flea)
1,2-b	enzisothiazol-3(2H)-on	e:		
Toxic	ity to fish	:	Exposure time: 96 Test Type: Static	hus mykiss (rainbow trout)): 0.74 mg/l 5 h est Guideline 203 or Equivalent
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Test Type: flow-th	
			EC50 (Mysid shri Exposure time: 96	mp (Mysidopsis bahia)): 0.99 mg/l 5 h
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Test Type: static t	
			ErC50 (Pseudokii mg/l	rchneriella subcapitata (green algae)): 0.10

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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				Exposure time: 24 Test Type: Static Method: OECD To	۱ h est Guideline 201 or Equivalent
				EC10 (Pseudokiro mg/l End point: Growth Exposure time: 24 Test Type: Static Method: (calculate	l h
	И-Fact city)	or (Acute aquatic tox-	:	1	
Т	Foxicity	to microorganisms	:	Exposure time: 3	ctive sludge)): 28.52 mg/l h ation inhibition of activated sludge
	Гохісіty city)	to fish (Chronic tox-	:	NOEC: 0.21 mg/l Exposure time: 28 Species: Oncorhy Test Type: flow-th Method: OECD Te	nchus mykiss (rainbow trout) rrough
a	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) M-Factor (Chronic aquatic toxicity)		:	NOEC: 0.91 mg/l Exposure time: 21 Species: Daphnia Test Type: flow-th Method: OECD Te	magna (Water flea) rough test
			:	1	
12.2 F	Persis	tence and degradabil	ity		
<u>c</u>	Compo	onents:			
		aflor (ISO): radability	:	Result: Not biode Biodegradation: (Exposure time: 28 Method: OECD To Remarks: Materia OECD/EEC guide) % 3 d est Guideline 310 I is not readily biodegradable according to
Т	ΓhOD		:	1.90 kg/kg	
F	Photod	egradation	:	Test Type: Half-lif Sensitiser: OH rad Rate constant: 1.6 Method: Estimate	653E-11 cm3/s

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Unkr	nown(s) - Sulfonated	aromatic polymer,	sodium salt for 30000000578, 30000000299:		
	Biodegradability :				
1,2-b	enzisothiazol-3(2H)-o	one:			
Biode	Biodegradability :		Result: Not biodegradable Biodegradation: 24 % Exposure time: 28 d Method: OECD Test Guideline 301B or Equivalent		
12.3 Bioa	ccumulative potentia	I			
<u>Com</u>	ponents:				
sulfo	exaflor (ISO):				
	ion coefficient: n- nol/water	: log Pow: 0.8 pH: 7 Method: Mea Remarks: Bi Pow < 3).			
Partit	nown(s) - Sulfonated tion coefficient: n- nol/water	• •	sodium salt for 30000000578, 30000000299: o relevant data found.		
1,2-b	enzisothiazol-3(2H)-o	one:			
Bioad	ccumulation	Bioconcentra	oomis macrochirus (Bluegill sunfish) ation factor (BCF): 6.95 CD Test Guideline 305		
	ion coefficient: n- nol/water	: log Pow: 0.9 pH: 5 Method: OE(9 (20 °C) CD Test Guideline 117 or Equivalent		
		log Pow: 0.6 pH: 7 Method: OE(3 (10 °C) CD Test Guideline 117 or Equivalent		
		log Pow: 0.7 pH: 7 Method: OE(0 (20 °C) CD Test Guideline 117 or Equivalent		
		log Pow: 0.7 pH: 7 Method: OE0	6 (30 °C) CD Test Guideline 117 or Equivalent		
		log Pow: -0.9 pH: 9			

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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ity in soil		
onents:		
aflor (ISO):		
ution among environ- l compartments	: Koc: 40 Method: Meas Remarks: Pote tween 0 and 5	ential for mobility in soil is very high (Koc be-
own(s) - Sulfonated a	romatic polymer, s	odium salt for 300000000578, 30000000299:
ution among environ- l compartments	: Remarks: No	relevant data found.
nzisothiazol-3(2H)-or	ie:	
ution among environ- l compartments	and 150). Given its very	ential for mobility in soil is high (Koc between 50 low Henry's constant, volatilization from natural er or moist soil is not expected to be an im-
ts of PBT and vPvB a	ssessment	
ct:		
sment	to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
onents:		
aflor (ISO):		
sment	lating and toxi	e is not considered to be persistent, bioaccumu- c (PBT) This substance is not considered to be t and very bioaccumulating (vPvB).
own(s) - Sulfonated a	romatic polymer, s	odium salt for 300000000578, 300000000299:
sment	lating and toxi	e is not considered to be persistent, bioaccumu- c (PBT) This substance is not considered to be t and very bioaccumulating (vPvB).
nzisothiazol-3(2H)-or	ie:	
sment		e has not been assessed for persistence, bioac- d toxicity (PBT).
	onents: aflor (ISO): ution among environ- compartments own(s) - Sulfonated an ution among environ- compartments nzisothiazol-3(2H)-or ution among environ- compartments ts of PBT and vPvB a ct: sment onents: aflor (ISO): sment own(s) - Sulfonated an sment	onents: aflor (ISO): ution among environ- : Koc: 40 l compartments Method: Meas Remarks: Pote tween 0 and 5 own(s) - Sulfonated aromatic polymer, s ution among environ- : l compartments nzisothiazol-3(2H)-one: ution among environ- : l compartments nzisothiazol-3(2H)-one: ution among environ- : l compartments nzisothiazol-3(2H)-one: ution among environ- i compartments nad 150). Given its very bodies of wate portant fate pr ts of PBT and vPvB assessment ct: sment : aflor (ISO): sment : onents: aflor (ISO): sment : own(s) - Sulfonated aromatic polymer, s sment : this substance lating and toxi very persisten own(s) - Sulfonated aromatic polymer, s sment :

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12.6 En	12.6 Endocrine disrupting properties							
Pro	oduct:							
Assessment		ered to have REACH Artic (EU) 2017/2	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.					
12.7 Ot	ner adverse effects							
<u>Co</u>	mponents:							
sul	foxaflor (ISO):							
Oz	one-Depletion Potential		nis substance is not on the Montreal Protocol list es that deplete the ozone layer.					
Un	known(s) - Sulfonated a	romatic polymer,	sodium salt for 30000000578, 30000000299:					
Ozone-Depletion Potential :			nis substance is not on the Montreal Protocol list as that deplete the ozone layer.					
1,2	-benzisothiazol-3(2H)-or	ne:						
Oz	one-Depletion Potential		nis substance is not on the Montreal Protocol list as that deplete the ozone layer.					

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

SECTION 14: Transport information

14.1 UN number or ID number

ADR	: UN 3082
RID	: UN 3082

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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IN	MDG		:	UN 3082		
IA	ATA		:	UN 3082		
14.2 U	JN pro	per shipping name				
A	DR		:	ENVIRONMENT N.O.S. (Sulfoxaflor)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
R	lD		:	ENVIRONMENTA N.O.S. (Sulfoxaflor)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
IMDG		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sulfoxaflor)			
IA	ATA		:	Environmentally I (Sulfoxaflor)	nazardous substance, liquid, n.o.s.	
14.3 T	ransp	ort hazard class(es)				
				Class	Subsidiary risks	
А	DR		:	9	·	
R	ID		:	9		
	MDG			9		
	ATA			9		
		g group		-		
	DR	3.3.5.4				
		g group	:	111		
С	lassifi	cation Code	:	M6		
	lazard abels	Identification Number	:	90 9		
		restriction code	÷	9 (-)		
	RID			()		
		g group	:	III		
		cation Code	:	M6		
	lazard abels	Identification Number	:	90 9		
	MDG		•	5		
		g group	:	111		
La	abels		:	9		
	mS C Iemarl		:	F-A, S-F Stowage categor	уА	
		Cargo) g instruction (cargo	:	964		
ai	ircraft		•			
		g instruction (LQ) g group	:	Y964 III		

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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	Labels	: Miscellaneous	
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels		n- : 964 : Y964 : III : Miscellaneous	
14.5	Environmental hazards		
	ADR Environmentally hazardous	: yes	
	RID Environmentally hazardous	: yes	
	IMDG Marine pollutant	: yes(Sulfoxaflor)	

14.6 Special precautions for user

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

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/legislat ture	tion	specific for the substance or mix-
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	:	Not applicable



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pean l contro	Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.		E2	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.

The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.

SECTION 16: Other information

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Full text of H-Statements

H302 :	Harmful if swallowed.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H330 :	Fatal if inhaled.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.
H412 :	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
IE OEL	:	List of Chemical Agents and Carcinogens with Occupational
		Exposure Limit Values - Code of Practice, Schedule 1 and 2
IE OEL / OELV - 8 hrs (TWA)	:	Occupational exposure limit value (8-hour reference period)

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM -American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IMDG - Interna-

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tional Maritime Dangerous Goods; IMO - International Maritime Organization; 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; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN -United Nations.

EC-Number - European Community number REACH - Regulation (EC) No 1907/2006 of the European Parliament and of Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

Further information

Classification of the mixture:

Classification procedure:

Aquatic Chronic 2

Based on product data or assessment

Product code: GF-2626

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.

IE / 6N