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Corteva Agriscience<sup>™</sup> 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

: ZORVEC ENDAVIA™

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

Use of the Substance/Mixture

: Fungicide

#### **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)

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

Carcinogenicity, Category 2 H351: Suspected of causing cancer.

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Long- egory	-term (chronic) aquation 2	c haza	ard, Cat- H411	: Toxic to aquatic life with long lasting effects
.2 Label	elements			
Labe	lling (REGULATION	(EC)	No 1272/2008)	
Haza	rd pictograms	:		!
Signa	al word	:	Warning	
Haza	rd statements	:	H351 Suspecte	se an allergic skin reaction. Id of causing cancer. aquatic life with long lasting effects.
Preca	autionary statements	:	P280 Wear protect	pecial instructions before use. tective gloves/ protective clothing/ eye prote on/ hearing protection. eathing dust/ fume/ gas/ mist/ vapours/ spray
			Response:	F exposed or concerned: Get medical advice
			Storage:	
			P405 Store loc	ked up.
			posal contractor	of contents/container to a licensed waste dis or collection site except for empty clean tripl which can be disposed of as non-hazardou

White mineral oil (petroleum) Benthiavalicarb-isopropyl

### Additional Labelling

EUH208 Contains Benthiavalicarb-isopropyl. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 10 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 10 %

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The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 10 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 10 %

#### 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. EC-No. Index-No. REACH Registration	Classification	Concentration (% w/w)
	number		
oxathiapiprolin (ISO)	1003318-67-9	Aquatic Acute 1; H400	3.2
	613-332-00-1	Aquatic Chronic 1; H410	
		M-Factor (Chronic aquatic toxicity): 1	
Benthiavalicarb-isopropyl	177406-68-7	Skin Sens. 1; H317 Carc. 2; H351 Aquatic Chronic 3; H412	7.6
Ethylhexanol	104-76-7 203-234-3 01-2119487289-20	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	>= 1 - < 3
Benzenesulfonic acid, C10-13- alkyl derivs., calcium salt	1335202-81-7 932-231-6 01-2119560592-37	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2.5

For explanation of abbreviations see section 16.

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### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures General advice : Never give anything by mouth to an unconscious person. If inhaled Move to fresh air. : Artificial respiration and/or oxygen may be necessary. Consult a physician after significant exposure. In case of skin contact 2 Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician Wash contaminated clothing before re-use. : If easy to do, remove contact lens, if worn. In case of eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist. If swallowed Obtain medical attention. • DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water. 4.2 Most important symptoms and effects, both acute and delayed Symptoms : No cases of human intoxication are known and the symptoms of experimental intoxication are not known. 4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media				
Suitable extinguishing media	:	Water spray Alcohol-resistant foam		
Unsuitable extinguishing media	:	None known.		
5.2 Special hazards arising from the substance or mixture				
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.		

Hazardous combustion prod- : Nitrogen oxides (NOx)

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



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	ucts			Carbon oxides	
5.3	Advice	for firefighters			
	Specia for firef	l protective equipment ighters	:		ed breathing apparatus for firefighting if nec- onal protective equipment.
	Specifi ods	c extinguishing meth-	:	so. Evacuate area.	ged containers from fire area if it is safe to do o cool unopened containers.
	Furthe	r information	:		measures that are appropriate to local cir- he surrounding environment.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective	e 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 :	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 contain	nment and cleaning up
Methods for cleaning up :	Clean up remaining materials from spill with suitable absorb- ant. 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). See Section 13, Disposal Considerations, for additional infor- mation.

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### 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

Advice on safe handling	<ul> <li>Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safet practice. Smoking, eating and drinking should be prohibited in the ap- plication area. Take care to prevent spills, waste and minimize release to th environment. Use appropriate safety equipment. For additional information refer to Section 8, Exposure Controls and Personal Protection</li> </ul>	ie 1,
Hygiene measures	: Handle in accordance with good industrial hygiene and safet practice. Regular cleaning of equipment, work area and cloth ing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handlin- the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Remove clothing/PPE immediately if material gets inside. For environ mental protection remove and wash all contaminated protec- tive equipment before re-use. Dispose of rinse water in ac- cordance with local and national regulations.	р ј- g

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in a closed container. Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage	:	Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.
<b>7.3 Specific end use(s)</b> Specific use(s)	:	Plant protection products subject to Regulation (EC) No 1107/2009.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
White mineral oil	8042-47-5	Occupational	5 mg/m3	IE OEL

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(petro	oleum)		exposure limit value (8-hour reference period) (inhalable frac- tion)		
Ethylł	nexanol	104-76-7	Limit Value - eight hours	1 ppm 5.4 mg/m3	2017/164/EU
		Further Inform	Aation: Indicative Occupational exposure limit value (8-hour reference period)	1 ppm 5.4 mg/m3	IE OEL
			8-hr TWA	2 ppm	Corteva OEL
Propa	anediol	57-55-6	Occupational exposure limit value (8-hour reference period) (particles)	10 mg/m3	IE OEL
			Occupational exposure limit value (8-hour reference period) (total (vapour and particles))	150 ppm 470 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- fects	Value
Glycerides, mixed decanoyl and oc- tanoyl	Workers	Inhalation	Long-term systemic effects	177.79 mg/m3
	Workers	Skin contact	Long-term systemic effects	25.21 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	43.84 mg/m3
	Consumers	Skin contact	Long-term systemic effects	12.61 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12.61 mg/kg bw/day
Ethylhexanol	Workers	Inhalation	Long-term systemic effects	12.8 mg/m3
	Workers	Inhalation	Long-term local ef- fects	53.2 mg/m3
	Workers	Inhalation	Acute local effects	53.2 mg/m3
	Workers	Skin contact	Long-term systemic effects	23 mg/kg bw/day
	Workers	Inhalation	Acute local effects	106.4 mg/m3
	Consumers	Inhalation	Long-term systemic effects	2.3 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	26.6 mg/m3
	Consumers	Inhalation	Acute local effects	26.6 mg/m3

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		Consumers	Skin cont	act	Long-term systemic effects	11.4 mg/kg bw/day
		Consumers	Ingestion		Long-term systemic effects	1.1 mg/kg bw/day
Р	ropanediol	Workers	Inhalation	I	Long-term local ef- fects	10 mg/m3
		Workers	Inhalation	l	Long-term systemic effects	168 mg/m3
		Consumers	Inhalation	1	Long-term local ef- fects	10 mg/m3
		Consumers	Inhalation	l	Long-term systemic effects	50 mg/m3

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

Substance name	Environmental Compartment	Value	
Glycerides, mixed decanoyl and octanoyl	Oral (Secondary Poisoning) 0.03 mg/kg fo		
Ethylhexanol	Fresh water	0.017 mg/l	
	Intermittent use/release	0.17 mg/l	
	Marine water	0.002 mg/l	
	Sewage treatment plant	10 mg/l	
	Fresh water sediment	0.284 mg/kg dry weight (d.w.)	
	Marine sediment	0.028 mg/kg dry weight (d.w.)	
	Soil	0.047 mg/kg dry weight (d.w.)	
	Oral (Secondary Poisoning)	55 mg/kg food	
Propanediol	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	
	Marine sediment	57.2 mg/kg	
	Soil	50 mg/kg	

### 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.

Personal protective equipmer	nt
Eye/face protection :	Safety glasses with side-shields conforming to EN166 Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
Hand protection	
Remarks	The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Please observe the instructions regarding

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		the supplier of specific local of such as the da The suitability with the produ through time of the thickness a measured for be obtained fro to be observed Gloves should cation of degra 35 cm long or	nd breakthrough time which are provided by the gloves. Also take into consideration the conditions under which the product is used, anger of cuts, abrasion, and the contact time. for a specific workplace should be discussed cers of the protective gloves. The break epends amongst other things on the material, and the type of glove and therefore has to be each case. The exact break through time can om the protective glove producer and this has d. Gloves must be inspected prior to use. be discarded and replaced if there is any indi- adation or chemical breakthrough. Gauntlets of longer shall be worn over the combination removing gloves clean them with soap and
Skin a	and body protection	Full protective	and processing work: clothing Type 6 (EN 13034)
		Spray applicat Tractor / spray No personal b	
		Full protective	rer without hood: clothing Type 4 (EN 14605) poots (EN 13832-3 / EN ISO 20345).
		Full protective	apsack sprayer: clothing Type 4 (EN 14605) poots (EN 13832-3 / EN ISO 20345).
		treated area b tective clothing 3 (EN 374) an 20345). To optimize th	onal circumstances require an access to the efore the end of re-entry periods, wear full pro- g Type 6(EN 13034), nitrile rubber gloves class d nitrile rubber boots (EN 13832-3 / EN ISO e ergonomy it may be recommended to use ear when wearing some fabrics. Take advice
		Garment mate and air will ma robust to main The permeatic dependently o sure an appro	rials that are resistant to both water vapour ximise wearing comfort. Materials should be tain the integrity and barrier in use. In resistance of the fabric must be verified in- f the « type » protection recommended, to en- priate performance level of the material ade- prresponding agent and type of exposure.
		Full protective Rubber apron	ders must wear: clothing Type 6 (EN 13034) poots (EN 13832-3 / EN ISO 20345).

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Resp	Respiratory protection		g and processing work: h vapour filter A1 (EN 141)
			ders must wear: h vapour filter A1 (EN 141)
		Tractor / spra	tion - outdoor: yer with hood: espiratory protective equipment normally re-
			yer without hood: h a particle filter FFP1 (EN149)
			hapsack sprayer: h a particle filter P1 (EN 143).
			utomatized spray application in closed tunnel: espiratory protective equipment normally re-
Prote	ctive measures	to the concen at the specific All chemical p prior to use. C of chemical o	rotective equipment must be selected according tration and amount of the dangerous substance workplace. Protective clothing should be visually inspected Clothing and gloves should be replaced in case r physical damage or if contaminated. d handlers may be in the area during applica-

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

### 9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	off-white
Odour	:	none
Odour Threshold	:	not determined
Melting point/freezing point	:	Not applicable
Boiling point/boiling range	:	> 100 °C

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	r explosion limit / Upper nability limit	:	No data available	
	r explosion limit / Lower nability limit	:	No data available	
Flash	point	:	> 200 °C Method: Regulati cup	on (EC) No. 440/2008, Annex, A.9, closed
Auto-i	gnition temperature	:	239 °C Method: Regulati	on (EC) No. 440/2008, Annex, A.15
рН		:	5.7 (25 °C) (neat)	
			6.1 (25 °C) (1% dispersion)	
Visco: Vis	sity scosity, dynamic	:	Not applicable	
Vis	scosity, kinematic	:	Not applicable	
	ility(ies) ater solubility	:	dispersible	
	on coefficient: n- ol/water	:	Not applicable	
Vapou	ur pressure	:	not determined	
Relati	ve density	:	0.85 - 0.95	
Densi	ty	:	No data available	)
Relati	ve vapour density	:	No data available	)
<b>9.2 Other</b> Explo	information		Not explosive	
	01700	•		on (EC) No. 440/2008, Annex, A.14

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Oxidiz	zing properties	: The substance	e or mixture is not classified as oxidizing.			
Self-ię	gnition	: No data available				
Evapo	oration rate	: No data avail	able			
Surfa	ce tension	: not determine	ed			

### **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**

Carbon oxides

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

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

Acute toxicity

Components:

#### oxathiapiprolin (ISO):

Acute oral toxicity

#### : LD50 (Rat): > 5,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity

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Acute	inhalation toxicity	Expos Test a		h
Acute	e dermal toxicity	: LD50 (	(Rat): > 5,0	00 mg/kg
Bent	hiavalicarb-isopropyl:			
Acute	e oral toxicity	Metho		00 mg/kg est Guideline 401 substance or mixture has no acute oral tox-
Acute	inhalation toxicity	Expos Test a		h
Acute	e dermal toxicity	Metho	sment: The	00 mg/kg est Guideline 402 substance or mixture has no acute dermal
Ethyl	hexanol:			
Acute	e oral toxicity		(Rat): > 2,0 Organs: C	00 mg/kg entral nervous system
Acute	inhalation toxicity	Expos	(Rat): 2.17 i ure time: 4 tmosphere:	h
		Expos	(Rat): 1.5 m ure time: 4 tmosphere:	ĥ
Acute	e dermal toxicity			3,000 mg/kg est Guideline 402
Benz	enesulfonic acid, C10	13-alkyl de	rivs., calci	um salt:
Acute	oral toxicity	: LD50 (	Rat, female	e): 4,445 mg/kg
Acute	e dermal toxicity		sment: The	and female): > 2,000 mg/kg substance or mixture has no acute dermal

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Skin	corrosion/irritation				
<u>Prod</u>	uct:				
Spec		: EpiDern	n™ skin m	odel	
Expo	sure time	: 1 h			
Meth			Fest Guide	line 439	
Resu	It	: NO SKIN	irritation		
Com	ponents:				
oxath	niapiprolin (ISO):				
Spec		: Rabbit			
Resu	lt	: No skin	irritation		
Bent	hiavalicarb-isopropyl:				
Spec		: Rabbit			
Resu	lt	: No skin	irritation		
Ethyl	hexanol:				
Spec		: Rabbit			
Resu	lt	: Skin irrit	tation		
Benz	enesulfonic acid, C10	-13-alkvl deri	vs calcii	ım salt	
Spec		: Rabbit	10., 00.010	in suc.	
Resu		: Skin irrit	tation		
	ous eye damage/eye ir	ritation			
Prod					
Spec		: Bovine o	cornea		
Expo Resu	sure time	: 0.5 h : No eye i	irritation		
Resu	it.	. NO eye	Initation		
<u>Com</u>	ponents:				
	niapiprolin (ISO):				
Spec		: Rabbit			
Resu	It	: No eye i	irritation		
Bent	hiavalicarb-isopropyl:				
Spec		: Rabbit			
Meth			Fest Guide	line 405	
Resu	It	: No eye i	irritation		
Ethyl	lhexanol:				
Spec		: Rabbit			
Resu	lt	: Eye irrita	ation		

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Ben	zenesulfonic acid, C10-	·13-	alkyl derivs., ca	Icium salt:
Spee	cies	:	Rabbit	
Res		:	Corrosive	
Res	piratory or skin sensitis	satio	on	
<u>Con</u>	nponents:			
oxat	hiapiprolin (ISO):			
	Туре	:	Maximisation 1	est
Spee		:	Guinea pig	
Res	ult	:	Does not caus	e skin sensitisation.
Ben	thiavalicarb-isopropyl:			
Spee			Guinea pig	
•	essment	:		nsitisation by skin contact.
,		•		
Ethy	/lhexanol:			
	Туре	:	HRIPT (humar	n repeat insult patch test)
Spee		:	human	
Asse	essment	:	Does not caus	e skin sensitisation.
Ben	zenesulfonic acid, C10-	·13-	alkyl derivs., ca	Icium salt:
Spee			Guinea pig	
•	essment	:		e skin sensitisation.
Geri	m cell mutagenicity			
<u>Con</u>	nponents:			
oxat	hiapiprolin (ISO):			
	n cell mutagenicity- As- ment	:	Animal genetic	toxicity studies were negative.
Ben	thiavalicarb-isopropyl:			
	m cell mutagenicity- As-	:	In vitro genetic	toxicity studies were negative.
sess	sment			
Ethv	/lhexanol:			
-	n cell mutagenicity- As-		In vitro genetic	toxicity studies were negative., Animal genetic
	sment	•		were negative.
Dar	ronocultonic coid 040	12		loium coltu
	zenesulfonic acid, C10-	13-	-	
	m cell mutagenicity- As- sment	:		toxicity studies were negative., Animal genetic were negative.

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	Carcin	ogenicity			
	Compo	onents:			
		<b>apiprolin (ISO):</b> ogenicity - Assess-	:	Did not cause car	cer in laboratory animals.
	Benthi	avalicarb-isopropyl:			
	Carcinogenicity - Assess- ment		:	Limited evidence	of carcinogenicity in animal studies
				Has caused cance	er in laboratory animals.
	-	<b>exanol:</b> ogenicity - Assess-	:		als, evidence of carcinogenic activity was is no evidence that these findings are rele-
	Reproc	ductive toxicity			
	Compo	onents:			
	oxathia	apiprolin (ISO):			
	Reprod sessme	luctive toxicity - As- ent	:		did not interfere with reproduction. not show any effects on foetal develop-
	Benthi	avalicarb-isopropyl:			
	Reprod sessme	luctive toxicity - As- ent	:		did not interfere with reproduction. h defects or any other fetal effects in labora-
	Ethylh	exanol:			
	Reprod	luctive toxicity - As- ent	:	toxic to the mothe animals at doses	defects in laboratory animals only at doses r., Has been toxic to the fetus in laboratory toxic to the mother., These concentrations uman dose levels.
	Benzei	nesulfonic acid, C10-	13-a	alkyl derivs., calci	um salt:
		luctive toxicity - As-	:	In animal studies,	did not interfere with reproduction. h defects or any other fetal effects in labora-
	STOT ·	- single exposure			
	Produc	<u>et:</u>			
	Assess	sment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.

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



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<u>Com</u>	oonents:		
oxath	iapiprolin (ISO):		
Asses	ssment		or mixture is not classified as specific target single exposure.
Benth	niavalicarb-isopropyl:		
Asses	ssment	: Evaluation of a an STOT-SE to	vailable data suggests that this material is not oxicant.
Ethyl	hexanol:		
	sure routes t Organs	: Inhalation : Respiratory Tra	act
	ssment		piratory irritation.
STOT	- repeated exposure		
Comp	oonents:		
oxath	iapiprolin (ISO):		
Asses	ssment		or mixture is not classified as specific target repeated exposure.
Repe	ated dose toxicity		
Comp	oonents:		
oxath	iapiprolin (ISO):		
Rema	ırks	pected to caus aerosol concer	able data, repeated exposures are not ex- e significant adverse effects except at very high ntrations. Repeated excessive aerosol expo- se respiratory tract irritation and even death.
Ethyl	hexanol:		
Rema	ırks	gans: Blood. Kidney.	ects have been reported on the following or-
		Liver. Spleen.	
Benze	enesulfonic acid, C10-	13-alkyl derivs., ca	lcium salt:
Rema	ırks		able data, repeated exposures are not antici- significant adverse effects.

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



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### Aspiration toxicity

#### Product:

No aspiration toxicity classification

#### **Components:**

#### oxathiapiprolin (ISO):

Based on available information, aspiration hazard could not be determined.

#### Benthiavalicarb-isopropyl:

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

#### Ethylhexanol:

May be harmful if swallowed and enters airways.

### Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

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:

Flouuci.		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 120 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)): 17 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 120 mg/l Exposure time: 72 h

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



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				Test Type: static t Method: OECD Te	
	Toxicity isms	to terrestrial organ-	:	oral LD50: > 330.9 Species: Apis mel Method: OECD Te	lifera (bees)
				contact LD50: 459 Species: Apis mel Method: OECD Te	lifera (bees)
	Compo	nents:			
	<b>oxathia</b> Toxicity	<b>piprolin (ISO):</b> to fish	:	LC50 (Oncorhync Exposure time: 96 Test Type: Static	hus mykiss (rainbow trout)): > 0.69 mg/l ì h
				LC50 (Lepomis m Exposure time: 96 Test Type: Static	acrochirus (Bluegill sunfish)): > 0.74 mg/l 5 h
				LC50 (Cyprinodor mg/l Exposure time: 96 Test Type: static t Method: OPPTS & GLP: yes	est
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: Static	agna (Water flea)): 0.67 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	ErC50 (Skeletone Exposure time: 96	ma costatum (marine diatom)): 0.351 mg/l 5 h
				ErC50 (Pseudokir mg/l Exposure time: 96	chneriella subcapitata (green algae)): 0.142 Sh
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.46 mg/l Exposure time: 88 Species: Oncorhy	d nchus mykiss (rainbow trout)
				NOEC: 0.34 mg/l Exposure time: 35 Species: Cyprinoc	i d Ion variegatus (sheepshead minnow)
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.75 mg/l Exposure time: 21 Species: Daphnia Test Type: semi-s	magna (Water flea)

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



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				NOEC: 0.058 mg/ Exposure time: 32 Species: America Test Type: flow-th	2 d mysis bahia (mysid shrimp)	
	M-Facto toxicity)	r (Chronic aquatic	:	1		
	Toxicity isms	to terrestrial organ-	:	LD50: > 2,250 mg/kg Species: Colinus virginianus (Bobwhite quail) Method: OPPTS 850.2100		
				LD50: > 2,250 mg Species: Poephila Method: OPPTS 8	guttata (zebra finch)	
				dietary LC50: > 5, Exposure time: 5 Species: Colinus Method: OECD Te	d virginianus (Bobwhite quail)	
				dietary LC50: > 5, Exposure time: 5 Species: Anas pla Method: OECD Te	d tyrhynchos (Mallard duck)	
	Benthia	valicarb-isopropyl:				
	Toxicity		:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Method: OECD Te		
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: > 10 mg/l Exposure time: 28 Species: Oncorhy	3 d nchus mykiss (rainbow trout)	
		to daphnia and other invertebrates (Chron- y)	:	NOEC: > 10 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)	
	Ethylhe	xanol:				
	Toxicity		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 32 - 37 mg/l ≿h	

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



Versior 1.0	n	Revision Date: 08.04.2024		9S Number: 0080000198	Date of last issue: - Date of first issue: 08.04.2024
				Exposure time: 96	innow (Pimephales promelas)): 28.2 mg/l 5 h est Guideline 203
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): 35.2 mg/l 3 h est Guideline 202
				Exposure time: 48	nagna (Water flea)): 39 mg/l 3 h est Guideline 202 or Equivalent
	oxicity ants	to algae/aquatic	:	mg/l End point: Growth Exposure time: 72	
Тс	oxicity	to microorganisms	:	EC50 (Bacteria): Exposure time: 10	
В	enzen	esulfonic acid, C10-	13-a	ılkyl derivs., calci	um salt:
Тс	oxicity	to fish	:	LC50 (Fish): > 1 - Exposure time: 90 Test Type: static	3 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 44 Test Type: static	
	oxicity ants	to algae/aquatic	:	EC50 (Algae): 29 Exposure time: 90 Test Type: static	3 h
Тс	oxicity	to microorganisms	:	EC50 (Bacteria): Exposure time: 3	
	oxicity ity)	to fish (Chronic tox-	:	NOEC: 0.23 mg/l Exposure time: 72 Species: Fish Test Type: flow-th	
ac		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 1.18 mg/l Exposure time: 2 <sup>-</sup> Species: Daphnia Test Type: flow-th	magna (Water flea)
12.2 P	ersist	ence and degradabil	ity		
Pr	roduc	<u>t:</u>			
		adability	:	Remarks: Not rea	dily biodegradable.

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



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<u>c</u>	Components:		
	<b>exathiapiprolin (ISO):</b> Biodegradability	: Result: Not readi	ily biodegradable.
	<b>Benthiavalicarb-isopropyl:</b> Biodegradability	: Result: Not biode	egradable
	<b>Ethylhexanol:</b> Biodegradability	Remarks: 10-day Biodegradation: Exposure time: 1	> 95 <sup>°</sup> % 5 d Fest Guideline 302B or Equivalent 7 Window: Not applicable 68 %
F	Photodegradation	Remarks: 10-day	/ Window: Pass ife (indirect photolysis) adicals .32E-11 cm3/s
	<b>Benzenesulfonic acid, C10-</b> Biodegradability	: Result: Readily b Biodegradation: Exposure time: 2	oiodegradable. 100 % 28 d Fest Guideline 301B or Equivalent
12.3 E	Bioaccumulative potential		
	Product: Bioaccumulation	: Remarks: Does r	not bioaccumulate.
<u>c</u>	Components:		
	<b>exathiapiprolin (ISO):</b> Bioaccumulation	: Bioconcentration	factor (BCF): 62
F	Senthiavalicarb-isopropyl: Partition coefficient: n- octanol/water	: log Pow: 2.52 - 2 pH: 5 - 9	2.59
	<b>Ethylhexanol:</b> Partition coefficient: n-	: log Pow: 3.1	

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



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oct	octanol/water		Method: Measured Remarks: Bioconcentration potential is moderate (BCF be- tween 100 and 3000 or Log Pow between 3 and 5).				
Ве	Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:						
Bio	accumulation	:	Bioconcentration factor (BCF): 2 - 1,000				
	tition coefficient: n- anol/water	cient: n- : log Pow: 2.89 Remarks: Bioconcentration potential is moderate (BCF be tween 100 and 3000 or Log Pow between 3 and 5).					
12.4 Mc	bility in soil						
Pro	oduct:						
	tribution among environ- ntal compartments	:	Remarks: Under a potential of mobility	actual use conditions the product has a low ity in soil.			
<u>Co</u>	mponents:						
Eth	ylhexanol:						
	mental compartments M		Koc: 800 Method: Estimate Remarks: Potenti and 2000).	ed. al for mobility in soil is low (Koc between 500			
Be	Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:						
Dis	tribution among environ- ntal compartments		-				
12.5 Re	sults of PBT and vPvB a	sse	ssment				
Pro	oduct:						
Ass	sessment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of			
<u>Co</u>	mponents:						
Be	nthiavalicarb-isopropyl:						
Ass	sessment	:	This substance had to cumulation and to	as not been assessed for persistence, bioac- oxicity (PBT).			
Eth	ylhexanol:						
	sessment	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT) This substance is not considered to be ad very bioaccumulating (vPvB).			

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



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В	Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:							
Assessment		:	This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB).					
12.6 E	12.6 Endocrine disrupting properties							
Pr	roduct:							
As	ssessment	:	ered to have end REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.				
12.7 O	12.7 Other adverse effects							
Components:								
В	enthiavalicarb-isopropyl:							
O	zone-Depletion Potential	:		ibstance is not on the Montreal Protocol list at deplete the ozone layer.				
Et	hylhexanol:							
O	zone-Depletion Potential	:		ubstance is not on the Montreal Protocol list at deplete the ozone layer.				
В	Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:							
	zone-Depletion Potential	:	Remarks: This su	ubstance is not on the Montreal Protocol list at 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.

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



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SECTION 14: Transport information						
14.1 UN n	umber or ID number					
ADR		:	UN 3082			
RID		:	UN 3082			
IMDG	6	:	UN 3082			
ΙΑΤΑ		:	UN 3082			
14.2 UN p	roper shipping name					
ADR		:	ENVIRONMENT N.O.S. (Oxathiapiprolin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
RID		:	ENVIRONMENTA N.O.S. (Oxathiapiprolin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
IMDG		:	ENVIRONMENTA N.O.S. (Oxathiapiprolin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
ΙΑΤΑ	IATA		Environmentally hazardous substance, liquid, n.o.s. (Oxathiapiprolin)			
14.3 Trans	sport hazard class(es)					
			Class	Subsidiary risks		
ADR		:	9			
RID		:	9			
IMDG	6	:	9			
ΙΑΤΑ		:	9			
14.4 Pack	ing group					
Class Haza Label	ing group sification Code rd Identification Number Is el restriction code	:	III M6 90 9 (-)			
Class Haza Label	6		III M6 90 9			
Label	ing group Is Code	:	III 9 F-A, S-F			

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



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Remarks : Stowage category A	
IATA (Cargo)Packing instruction (cargo:964aircraft).Packing instruction (LQ):Y964Packing group:IIILabels:Miscellaneous	
IATA (Passenger)         Packing instruction (passen-         ger aircraft)         Packing instruction (LQ)       :         Y964         Packing group       :         Labels       :         Miscellaneous	
14.5 Environmental hazards	
ADR Environmentally hazardous : yes	
RID Environmentally hazardous : yes	
IMDG Marine pollutant : yes(Oxathiapiprolin)	

### 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/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 75, 3

If you intend to use this product as tattoo ink, please contact your ven-

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



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						dor.
		I - Candidate List of Su n for Authorisation (Art		l	:	Not applicable
		tion (EC) No 1005/2009 e ozone layer	9 on substances that d	le-	:	Not applicable
	Regula tants (re	tion (EU) 2019/1021 or ecast)	n persistent organic pol	llu-	:	Not applicable
	ment a	tion (EC) No 649/2012 nd the Council concern erous chemicals			:	Not applicable
	REACH (Annex	I - List of substances s XIV)	ubject to authorisation		:	Not applicable
	pean Pa control	III: Directive 2012/18/I arliament and of the Co of major-accident haza ous substances.	ouncil on the	I	Not	applicable

### 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

H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H332 :	Harmful if inhaled.
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.
H412 :	Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

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



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• · · -		<b>A</b>			
Acute Tox.		Acute toxicity			
Aquatic Acute	:	Short-term (acute) aquatic hazard			
Aquatic Chronic	:	Long-term (chronic) aquatic hazard			
Carc.	:	Carcinogenicity			
Eye Dam.		Serious eye damage			
Eye Irrit.		Eye irritation			
Skin Irrit.		Skin irritation			
Skin Sens.		Skin sensitisation			
STOT SE		Specific target organ toxicity - single exposure			
2017/164/EU		Europe. Commiss	sion Directive 2017/164/EU establishing a		
		fourth list of indica	ative occupational exposure limit values		
Corteva OEL		Corteva Occupational Exposure Limit			
IE OEL		List of Chemical Agents and Carcinogens with Occupational			
		Exposure Limit Va	alues - Code of Practice, Schedule 1 and 2		
2017/164/EU / TWA		Limit Value - eigh	t hours		
Corteva OEL / TWA	:	8-hr TWA			
IE OEL / OELV - 8 hrs (TWA)	) :	•	osure 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 - International 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						
e:	Classification procedure:					
H317	Calculation method					
H351	Calculation method					
H411	Calculation method					
	H351					

Product code: GF-3862

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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.

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



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IE / 6N