

## **STINGER<sup>®</sup>**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	20.12.2022	80008000808	Date of first issue: 20.12.2022

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 he®alth 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 Malaysia and may not meet the regulatory requirements in other countries.

### SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifier		
Product name	:	STINGER®
Recommended use of the che	emi	cal and restrictions on use
Recommended use	:	Fungicide
Restrictions on use	:	Do not use product for anything outside of the above specifie uses.
Manufacturer or supplier's de	etai	s
B-3-3, THE ASCENT PARADIO NO. 1, JALAN SS7/26A, KELAI 47301 PETALING JAYA Selangor Darul Ehsan MALAYSIA		JAYA
Customer Information Num- ber	:	603-7800 0280
E-mail address	:	SDS@corteva.com
Telefax	:	+60 3 7800 8415
Emergency telephone num- ber	:	603-7800 0287
CTION 2: Hazards identification	n	

#### Classification of the hazardous chemical

Skin sensitisation	: Category 1
Reproductive toxicity	: Category 1B

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Ha viro	zardous to the aquatic en- onment - acute hazard	:	Category 1	
Ha viro	zardous to the aquatic en- onment - chronic hazard	:	Category 1	
Lab	el elements			
Ha	zard pictograms	:		!
Sig	nal word	:	Danger	<b>v v</b>
Ha	zard statements	:	H317 May cause H360 May dama H410 Very toxic	e an allergic skin reaction. ge fertility or the unborn child. to aquatic life with long lasting effects.
Pre	ecautionary statements	:	Prevention:	
			P201 Obtain spe P273 Avoid relea P280 Wear prote P281 Use person	cial instructions before use. ase to the environment. ective gloves. nal protective equipment as required.
			Response: P308 + P313 IF tention. P391 Collect spil	exposed or concerned: Get medical advice/ at- lage.

Other hazards which do not result in classification

None known.

### **SECTION 3:** Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Picoxystrobin	117428-22-5	17.9
cyproconazole (ISO)	94361-06-5	7.17
Alkylnaphthalenesulfonic acid, polymer with for-	68425-94-5	>= 1 -< 3
maldehyde, sodium salt		

### SECTION 4: First aid measures

General advice	:	Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
If inhaled	:	Move to fresh air. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice
In case of skin contact	:	Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes.



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In case of eye contact		Call a p : Hold ey 20 min	<ul> <li>Call a poison control center or doctor for treatment advice.</li> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> </ul>				
If swallowed		Remov then co Call a p : Call a p Have p DO NC cian or	<ul> <li>Remove contact tenses, it present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> <li>Call a poison control center or doctor for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>DO NOT induce vomiting unless directed to do so by a physician or poison control center.</li> </ul>				
Most and e delay	important symptoms ffects, both acute and ed	Do not : No cas of expe	give anything by mouth to an unconscious person. es of human intoxication are known and the symptoms erimental intoxication are not known.				
Notes to physician		: Treat s	ymptomatically.				

### SECTION 5: Firefighting measures

### Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing me- dia	:	None known.
Physicochemical hazards aris	sing	g from the chemical
Specific hazards during fire- fighting	:	Exposure to combustion 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: Nitrogen oxides (NOx) Carbon oxides
Special protective equipment	an	d precautions for fire-fighters
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
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. Use water spray to cool unopened containers.

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

Personal precautions, protec- :	Use appropriate safety equipment. For additional information,
tive equipment and emer-	refer to Section 8, Exposure Controls and Personal Protection.
gency procedures	



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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 barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages ca not be contained.		
Methods and materials for containment and cleaning up		:	Clean up remaining ant. Local or national reposal of this mater employed in. For large spills, present to keep mater be pumped, recover container. The vere ther reaction with lead to overpressed Keep in suitable, of Wipe up with absord See Section 13, De mation.	g materials from spill with suitable absorb- egulations may apply to releases and dis- rial, as well as those materials and items ovide dyking or other appropriate contain- erial from spreading. If dyked material can ered material should be stored in a vented of must prevent the ingress of water as fur- spilled materials can take place which could urization of the container. closed containers for disposal. orbent material (e.g. cloth, fleece). isposal Considerations, for additional infor-	

### **SECTION 7: Handling and storage**

Handling	
Precautions for safe handling	
Advice on safe handling	<ul> <li>Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the application 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.</li> </ul>
Storage	
Conditions for safe storage, i	ncluding any incompatibilities
Conditions for safe storage Materials to avoid	<ul> <li>Store in a closed container. Keep in properly labelled containers. Store in accordance with the particular national regulations.</li> <li>Strong oxidizing agents</li> </ul>
Packaging material	: Unsuitable material: None known.

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

### **Control parameters**

Contains no substances with occupational exposure limit values.



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App cont	ropriate engineering trols	:	Ensure adequa	ate ventilation.	
Indivi	idual protection measu	ıres,	such as perso	nal protective equipment	
Eye/	face protection	:	Wear protective eyewear to prevent contact with this sub- stance.		
Han	d protection				
R	Remarks		Use gloves chemically resistant to this material. Example preferred glove barrier materials include: Butyl rubber. Cl rinated polyethylene. Polyethylene. Ethyl vinyl alcohol lar nate ("EVAL"). Examples of acceptable glove barrier mat als include: Natural rubber ("latex"). Neoprene. Nitrile/but ene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" "vinyl"). Viton. NOTICE: The selection of a specific glove particular application and duration of use in a workplace should also take into account all relevant workplace factor such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, terity, thermal protection), potential body reactions to glov materials, as well as the instructions/specifications provide		
Res	piratory protection	<ul> <li>Where there is potential for airborne exposures in e applicable limits, wear approved respiratory protection</li> </ul>		potential for airborne exposures in excess of s, wear approved respiratory protection with dge.	
Hygi	Hygiene measures		Wash hands b the product. Remove clothin Wash thorough Remove perso handling this p Wash the outs As soon as posi- clothing.	efore breaks and immediately after handling ng/PPE immediately if material gets inside. nly and put on clean clothing. nal protective equipment immediately after roduct. ide of gloves before removing. ssible, wash thoroughly and change into clean	

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

Appearance	:	liquid
Colour	:	off-white
Odour	:	sweet
Odour Threshold	:	not determined
рН	:	7 (25 °C) Concentration: 10 g/L
Melting point/freezing point	:	Not applicable
Boiling point/boiling range	:	No data available
Flash point	:	> 97 °C
		Mathad: alagad aug

Method: closed cup



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	Evapor	ation rate	:	No data available	,	
	Flamma	ability (solid, gas)	:	The product is no	t flammable.	
	Upper e flamma	explosion limit / Upper bility limit	:	No data available		
	Lower e flamma	explosion limit / Lower bility limit	:	No data available		
	Vapour	pressure	:	No data available	,	
	Relative	e vapour density	:	No data available	•	
	Density	,	:	: 1.12 g/cm3		
ŝ	Solubilit Wat	y(ies) er solubility	:	Miscible		
	Partitio	n coefficient: n-oc-	:	Not applicable		
	Auto-ig	nition temperature	: 455 °C			
١	Viscosity Visc	y cosity, dynamic	:	109 - 538 mPa,s	( 20 °C)	
				87.9 - 475 mPa,s	( 40 °C)	
	Explosi	ve properties	:	Not explosive		
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.	
SECT	FION 10	): Stability and reactiv	vity			
	Reactiv Chemic	rity cal stability	:	Not classified as No decomposition Stable under nor	a reactivity hazard. n if stored and applied as directed. mal conditions	
	Possibi tions	lity of hazardous reac-	:	Stable under reco No hazards to be	specially mentioned.	
	Condition Incomp	ons to avoid atible materials	:	None known. Strong acids		
	Hazard product	ous decomposition ts	:	Decomposition p and the presence Decomposition p Nitrogen oxides ( Carbon oxides	roducts depend upon temperature, air supply of other materials. roducts can include and are not limited to: NOx)	

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



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Inform expos	nation on likely routes of ure	:	None known.		
Acute	toxicity				
Produ	<u>ct:</u>				
Acute	oral toxicity	:	LD50 (Rat, female Method: OECD Te	e): > 2,000 mg/kg est Guideline 425	
Acute	inhalation toxicity	:	LC50 (Rat): > 7.34 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403		
Acute	dermal toxicity	:	LD50 (Rat): > 4,000 mg/kg Method: OECD Test Guideline 402		
<u>Comp</u>	onents:				
Picoxy	/strobin:				
Acute	oral toxicity	:	LD50 (Rat, female Method: OECD Te	e): > 5,000 mg/kg est Guideline 425	
Acute	inhalation toxicity	:	LC50 (Rat, male): > 2.12 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: The particle size (MMAD) of unmilled picoxystrobin technical material is~228 $\mu$ m, with less than 3.3% of material <4 $\mu$ m, indicating unmilledpicoxystrobin is not respirable and that the study results with milledtechnical material are not rele vant to picoxystrobin in the supplychain. Material milled to a particle size of 3.4 - 4.1 $\mu$ m MMAD		
Acute	dermal toxicity	:	LD50 (Rat): > 5,00 Method: OECD Te	00 mg/kg est Guideline 402	
cyprod	conazole (ISO):				
Acute	oral toxicity	:	LD50 (Rat, male):	350 mg/kg	
			LD50 (Mouse): 20 Assessment: The gestion.	0 mg/kg component/mixture is toxic after single in-	
Acute	inhalation toxicity	:	LC50 (Rat): > 5.66 Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	5 mg/l h dust/mist substance or mixture has no acute inhala-	
Acute	dermal toxicity	:	LD50 (Rat): > 2,00 Assessment: The toxicity	00 mg/kg substance or mixture has no acute dermal	



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	haphthalenesulfonic	acid, poly	mer with fo	rmaldehyde, sodium salt:
Acule		. LD.	50 (Ital). > 4	,300 mg/kg
Skin o	corrosion/irritation			
<u>Produ</u>	<u>ict:</u>			
Spec	ies	: Rat	obit	
Meth	od	: OE	CD Test Gui	ideline 404
Resu	lt	: No	skin irritatior	n
<u>Comp</u>	onents:			
Picox	ystrobin:			
Spec	ies	: Rat	obit	
Meth	od	: OE	CD Test Gui	ideline 404
Resu	lt	: No	skin irritatior	n
cypro	conazole (ISO):			
Resu	lt	· No	skin irritatior	n
Alkylr Speci	n <b>aphthalenesulfonic</b> ies	acid, poly : Rat	<b>mer with fo</b> obit	rmaldehyde, sodium salt:
Resu	It	: No	skin irritatior	n
Serio	us eye damage/eye i	rritation		
Produ	<u>ict:</u>			
Spec	ies	: Rat	obit	
Resu	lt	: No	eye irritation	1
Meth	od	: OE	CD Test Gui	ideline 405
<u>Comp</u>	onents:			
Picox	ystrobin:			
Spec	ies	: Rat	obit	
Resu	lt	: Mile	d eye irritatio	วท
Meth	od	: OE	CD Test Gui	ideline 405
cypro	conazole (ISO):			
Resu	( ,	· No	eve irritation	ı
i teou	n.	. 110	Syc initation	
Alkylr	naphthalenesulfonic	acid, poly	mer with fo	rmaldehyde, sodium salt:
Spec	ies	: Rat	obit	
Resu	lt	: Eye	; irritation	



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Res	Respiratory or skin sensitisation						
Pro	duct:						
Tes	st Type	:	Local lymph node	e assay (LLNA)			
Sp	ecies	:	Mouse				
Ass	sessment	:	May cause sensi	tisation by skin contact.			
Me		•	OECD Test Guid				
<u>Cor</u>	nponents:						
Pice	oxystrobin:						
Tes	st Type	:	Maximisation Tes	st			
Sp	ecies	:	Guinea pig				
Me	eult	:	OECD Test Guid	eline 406			
Re	Suit	•	Does not cause s				
сур	roconazole (ISO):						
Ass	sessment	:	Does not cause s	skin sensitisation.			
Re	marks	:	For skin sensitiza	Ition: argie akin repetiene when tested in guinee			
			pigs.	ergie skin reactions when tested in guinea			
Re	marks	:	For respiratory se	ensitization:			
Ger	m cell mutagenicity						
<u>Cor</u>	nponents:						
Pice	oxystrobin:						
Ge	rm cell mutagenicity - As-	:	Weight of eviden	ce does not support classification as a germ			
ses	ssment		cell mutagen.				
cyp	roconazole (ISO):						
Ge	rm cell mutagenicity - As-	:	In vitro genetic to	xicity studies were negative., Animal genetic			
ses	ssment		toxicity studies w	ere negative.			
Car	cinogenicity						
Cor	nponents:						
Pice	oxystrohin:						
Ca	rcinogenicity - Assess-		Animal testing di	d not show any carcinogenic effects			
me	nt	•	A minu testing uit	a not show any caroinogenic eneols.			
cvn	roconazole (ISO):						
Ca Ca	rcinogenicity - Assess-		Has caused cano	er in some laboratory animals Tumors were			
me	nt	•	observed only at thus exceeding th	levels which produced significant toxicity, ne maximum tolerated dose.			



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Repro	ductive toxicity			
<u>Comp</u>	onents:			
Picoxy Repro sessn	<b>ystrobin:</b> oductive toxicity - As- nent	:	No toxicity to repr Animal testing dic ment.	oduction I not show any effects on foetal develop-
cyproo Repro sessn	conazole (ISO): oductive toxicity - As- nent	:	Presumed human In laboratory anim been seen only at the parent animal Has been toxic to toxic to the mothe imals only at dose	a reproductive toxicant hal studies, effects on reproduction have t doses that produced significant toxicity to s. the fetus in laboratory animals at doses er., Has caused birth defects in laboratory an- es producing severe toxicity in the mother.
STOT	- single exposure			
<u>Produ</u> Asses	<u>ct:</u> ssment	:	Evaluation of ava	ilable data suggests that this material is not cant.
<u>Comp</u>	onents:			
Picoxy	ystrobin:			
Asses	ssment	:	The substance or gan toxicant, sing	mixture is not classified as specific target or- le exposure.
cypro	conazole (ISO):			
Asses	ssment	:	Evaluation of ava an STOT-SE toxic	ilable data suggests that this material is not cant.
Alkyin	aphthalenesulfonic ad	cid,	polymer with form	naldehyde, sodium salt:
Asses	ssment	:	Available data are specific target org	e inadequate to determine single exposure an toxicity.
STOT	- repeated exposure			
<u>Produ</u>	<u>ct:</u>			
Asses	ssment	:	Evaluation of avai an STOT-RE toxic	ilable data suggests that this material is not cant.
<u>Comp</u>	onents:			
Picoxy Asses	<b>ystrobin:</b> ssment	:	The substance or gan toxicant, repe	mixture is not classified as specific target or- eated exposure.





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<b>cyproco</b> Target Assess	onazole (ISO): Organs sment	: Liver : May cause dama exposure.	ge to organs through prolonged or repeated
Repeate	ed dose toxicity		
<u>Compo</u>	nents:		
cyproce Remar	onazole (ISO): ks	: In animals, effect gans: Adrenal gland. Kidney. Liver. Thyroid. Pituitary gland Spleen.	s have been reported on the following or-
Aspirat	ion toxicity		

#### Product:

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

#### **Components:**

### **Picoxystrobin:** Based on physical properties, not likely to be an aspiration hazard.

#### cyproconazole (ISO):

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

### AlkyInaphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

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

### **SECTION 12: Ecological information**

### Ecotoxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.22 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes Remarks: Material is highly toxic to fish on an acute basis (LC50 between 0.1 and 1.0 mg/L).
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.058 mg/l Exposure time: 48 h Test Type: static test



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			Method: OECD Te GLP: yes	est Guideline 202
Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te GLP: yes	chneriella subcapitata (green algae)): 0.94 : h est Guideline 201
			ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0.21 h
Toxicity isms	to terrestrial organ-	:	oral LD50 (Colinus Remarks: Materia (LD50 between 50	s virginianus (Bobwhite quail)): 1,734 mg/kg l is slightly toxic to birds on an acute basis )1 and 2000 mg/kg).
			LD50 (Apis mellife Exposure time: 96 Remarks: Virtually	era (bees)): < 1 5 d 7 non-toxic to bees
Fcotoxi	cology Assessment			
Acute a	quatic toxicity	:	Very toxic to aqua	tic life.
Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
Compor	nents:			
Picoxys	trobin:			
Toxicity	to fish	:	LC50 (Pimephales End point: mortalit Exposure time: 96 Test Type: Static	s promelas (fathead minnow)): 0.065 mg/l y h
			Method: OECD Te	est Guideline 203
			LC50 (Oncorhynch End point: mortalit Exposure time: 96 Test Type: Static	hus mykiss (rainbow trout)): 0.075 mg/l y h
			Method: OECD Te	est Guideline 203
Toxicity aquatic	to daphnia and other invertebrates	:	EC50 (Daphnia m End point: Immobi Exposure time: 48 Test Type: Static Method: OECD Te	agna (Water flea)): 0.024 mg/l lization h est Guideline 202
			EC50 (eastern oys Exposure time: 96 Test Type: flow-th Method: US EPA	ster (Crassostrea virginica)): 0.0057 mg/l i h rough test Test Guideline OPPTS 850.1035
Toxicity plants	to algae/aquatic	:	EC50 (Selenastru mg/l	m capricornutum (green algae)): 0.0063



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				End point: Growth Exposure time: 96 Test Type: Static	n rate Sh
				EyC50 (Lemna m Exposure time: 7 Test Type: Static	inor (duckweed)): 0.023 mg/l d
				NOEC (Lemna mi Exposure time: 7 Test Type: Static	nor (duckweed)): 0.049 mg/l d
				EbC50 (Pseudoki mg/l Exposure time: 72 Method: OECD Te	rchneriella subcapitata (green algae)): 0.26 2 h est Guideline 201
	M-Facto	or (Acute aquatic tox-	:	100	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28 Test Type: flow-th Method: OECD To GLP: yes	chus mykiss (rainbow trout)): 0.01 mg/l 3 d irough est Guideline 204
				NOEC (Cyprinodo mg/l Exposure time: 33 Test Type: flow-th	on variegatus (sheepshead minnow)): 0.021 3 d irough
				NOEC (Pimephale Exposure time: 32 Test Type: flow-th	es promelas (fathead minnow)): 0.040 mg/l 2 d irough
	Toxicity aquatic (Chronic	to daphnia and other invertebrates c toxicity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To GLP: yes	nagna (Water flea)): 0.008 mg/l I d est Guideline 202
				NOEC (Americam Exposure time: 28 Test Type: flow-th Method: OECD To GLP: yes	nysis bahia (mysid shrimp)): 0.0036 mg/l 3 d nrough test est Guideline 202
	M-Facto	or (Chronic aquatic	:	10	
	Toxicity) Toxicity ganisms	to soil dwelling or- s	:	LC50 (Eisenia feti Method: OECD Te GLP: yes	da (earthworms)): 6.7 mg/kg est Guideline 207
	Toxicity isms	to terrestrial organ-	:	LD50 (Colinus vir Method: US EPA	ginianus (Bobwhite quail)): > 2,250 mg/kg Test Guideline OPP 71-1



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			dietary LC50 (Col mg/kg Exposure time: 5 Method: OECD T GLP: yes	inus virginianus (Bobwhite quail)): > 5,200 d est Guideline 205
			dietary LC50 (Ana mg/kg Exposure time: 5 Method: OECD T GLP: yes	as platyrhynchos (Mallard duck)): > 5,200 d est Guideline 205
			contact LD50 (Ap Exposure time: 48 Method: OEPP/E	is mellifera (bees)): > 200 μg/bee 3 h PPO Test Guideline 170
			oral LD50 (Apis m Exposure time: 48 Method: OEPP/E	nellifera (bees)): > 200 μg/bee 3 h PPO Test Guideline 170
c	vproconazole (ISO):			
-	Foxicity to fish	:	Remarks: Materia an acute basis (L species).	I is very highly toxic to aquatic organisms on C50/EC50 <0.1 mg/L in the most sensitive
			Remarks: Materia (LC50/EC50/IC50 cies).	Il is very toxic to aquatic organisms below 1 mg/L in the most sensitive spe-
-	Foxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia m Exposure time: 48	agna (Water flea)): 26 mg/l 3 h
-	Foxicity to algae/aquatic	:	EC50 (Desmodes Exposure time: 96	smus subspicatus (green algae)): 0.077 mg/l 5 h
r	M-Factor (Acute aquatic tox-	:	10	
i - (	city) Foxicity to soil dwelling or- ganisms	:	LC50 (Eisenia fet Exposure time: 14	ida (earthworms)): 335 mg/kg 4 d
i	Foxicity to terrestrial organ- sms	:	Remarks: Materia sis (LD50 betwee toxic to birds on a ppm).	I is moderately toxic to birds on an acute ba- n 51 and 500 mg/kg)., Material is moderately dietary basis (LC50 between 501 and 1000
			oral LD50 (Colinu bodyweight.	s virginianus (Bobwhite quail)): 131 mg/kg
			dietary LC50 (Col mg/kg bodyweigh	inus virginianus (Bobwhite quail)): 856 t.
			oral LD50 (Apis m Exposure time: 24	nellifera (bees)): > 100 μg/bee 4 h



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			contact LD50 (Ap Exposure time: 24	is mellifera (bees)): > 100 μg/bee 4 h
Ecc Ch	otoxicology Assessment	:	Very toxic to aqua	atic life with long lasting effects.
Per	sistence and degradabili	ty		
Co	mponents:			
Pic	oxystrobin:			
Bio	odegradability	:	Result: Not readily	y biodegradable.
cyp	proconazole (ISO):			
Bio	odegradability	:	Remarks: Chemic the environment v	cal degradation (hydrolysis) is expected in vithin days to weeks.
Sta	ability in water	:	Degradation half	ife (half-life): 5 d (20 °C)
Bio	accumulative potential			
Co	mponents:			
Pic	oxystrobin:			
Bio	baccumulation	:	Species: Lepomis Bioconcentration Exposure time: 28 Temperature: 22 Concentration: 0.	a macrochirus (Bluegill sunfish) factor (BCF): 290 3 d °C .05 mg/l
Pa tar	rtition coefficient: n-oc- nol/water	:	log Pow: 3.68 (20	°C)
cyp	proconazole (ISO):			
Pa tar	irtition coefficient: n-oc- nol/water	:	log Pow: 2.9 Remarks: Biocon Pow < 3).	centration potential is low (BCF < 100 or Log
Alk	yInaphthalenesulfonic ac	id,	polymer with form	naldehyde, sodium salt:
Pa tar	ntition coefficient: n-oc- nol/water	:	Remarks: No data	a available for this product.
Мо	bility in soil			
Co	mponents:			
Pic Dis me	oxystrobin: stribution among environ- ental compartments	:	Koc: 898 Remarks: Under a potential of mobili	actual use conditions the product has a low ty in soil.
сур	proconazole (ISO):			



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Distribution among environ- mental compartments		:	Koc: 900 Method: Estimated. Remarks: Potential for mobility in soil is low (Koc between and 2000).	
Stabi	Stability in soil		Dissipation time: 7	100 - 124 d
Other	adverse effects			
<u>Comp</u>	onents:			
Picoxystrobin: Results of PBT and vPvB as- sessment		:	This substance is lating and toxic (P very persistent an	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
<b>cypro</b> Resu sessr	conazole (ISO): Its of PBT and vPvB as- nent	:	This substance is lating and toxic (P very persistent an	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
Ozone-Depletion Potential		:	Remarks: This su of substances tha	bstance is not on the Montreal Protocol list t deplete the ozone layer.
Alkvir	aphthalenesulfonic ac	id. I	polymer with form	aldehvde, sodium salt:
Resu	Its of PBT and vPvB as- nent	:	This substance ha cumulation and to	as not been assessed for persistence, bioac- xicity (PBT).
Ozon	e-Depletion Potential	:	Remarks: This sul of substances tha	bstance is not on the Montreal Protocol list t deplete the ozone layer.
SECTION '	13: Disposal informatio	n		

### Disposal methods

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

### **SECTION 14: Transport information**

### International Regulations



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UNR	RTDG			
UN number		:	UN 3082	
Proper shipping name		:	ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class				FICOXYSTIODITI
Dac	Class Booking group		9 III	
Labe	Labels		9	
ΙΑΤΑ	A-DGR			
UN/I	UN/ID No.		UN 3082	
Proper shipping name		:	Environmentally h (Cyproconazole,	nazardous substance, liquid, n.o.s. Picoxystrobin)
Class		:	9	• •
Packing group		:	III	
Labels		:	Miscellaneous	
Packing instruction (cargo aircraft)		:	964	
Packing instruction (passen- ger aircraft)		:	964	
IMD	G-Code			
UNI	number	:	UN 3082	
Prop	per shipping name	:	ENVIRONMENTA	ALLY HAZARDOUS SUBSTANCE, LIQUID,
			(Cyproconazole,	Picoxystrobin)
Clas	s	:	9	
Packing group		:	III	
Labels		:	9	
EmS	EmS Code		F-A, S-F	
Mari	ne pollutant	:	ves	
Rem	Remarks		Stowage category	y A

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Further information**

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.

#### 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.

#### **SECTION 15: Regulatory information**

#### Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.



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Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

#### **SECTION 16: Other information**

#### **Further information**

Other information Date format

Take notice of the directions of use on the label. dd.mm.yyyy

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

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