

CIRCADEN® 200 SC

Version 2.0	Revision Date: 21.02.2022	SDS Number: 50000117	Date of last issue: - Date of first issue: 19.02.2019
SECTION	N 1: Identification of	the substance/m	xture and of the company/undertaking
1.1 <u>Produ</u>	ct identifier		
Prod	uct name	CIRCADEN®	200 SC
Othe	r means of identificat	ion	
Prod	uct code	50000117	
Use c	ant identified uses of of the Sub- e/Mixture	the substance or m : Insecticide	ixture and uses advised against
Reco on us	mmended restrictions e	: Use as recomr	nended by the label.
1.3 <u>Details</u>	s of the supplier of th	e safety data sheet	
<u>Supp</u>	olier Address	West End Off	jistration Number: 1988/001451/07 ce Park, Building C e & Hall Street
		E-mail addres mation)	s: SDS-Info@fmc.com (E-Mail General Infor-
1.4 <u>Eme</u>	rgency telephone	Earlook fira	anill or accident omorganoica, call:
			spill or accident emergencies, call: 0-800-983-611 (CHEMTREC)
			gency: gency or poisoning contact: Griffon Poison Info e (24 hrs) - +27-(0)-82-446-8946
	N 2: Hazards identifi		
	ification of the substa		
	sification (REGULATIOn to the structure of the second se	. ,	08) 2: Harmful if inhaled.

Short-term (acute) aquatic hazard, Cate-

H400: Very toxic to aquatic life.



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	gory 1					
	Long-te egory 1	erm (chronic) aquatic h I	naza	ard, Cat-	H410: \ effects.	/ery toxic to aquatic life with long lasting
2.2	Label el	lements				
		ng (REGULATION (EC	C) N :	No 1272/2	2008)	2
	Signal	Word	:	Warning	g	
	Hazard	Statements	:		Harmful if i Very toxic t	nhaled. o aquatic life with long lasting effects.
	Precau	tionary Statements	:	Prevent	tion:	
				P271	Use only or	thing mist or vapors. utdoors or in a well-ventilated area. se to the environment.
				Respon		
				air and I CENTE		rtable for breathing. Call a POISON you feel unwell.
				Dispos a P501 disposa	Dispose of	contents/ container to an approved waste

Additional Labeling

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Cyantraniliprole	736994-63-1	Aquatic Acute 1;	>= 10 - < 20



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palyge	orskite		12174-11-7	H400 Aquatic Chronic 1; H410 >= 0.1 - < 1
2H-iso	on mass of 5-chloro-2 othiazol-3-one and 2- othiazol-3-one (3:1)		55965-84-9 613-167-00-{	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Subst	ances with a workpla	ce exposur	e limit :	
propa	ne-1,2-diol		57-55-6 200-338-0	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of eye contact	 Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	 Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
4.2 Most important sympton	ms and effects, both acute and delayed

Risks : Harmful if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically.



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SECTIC	N 5: Firefighting meas	sur	es				
5.1 Extir	nguishing media						
Suit	able extinguishing media	:	Dry chemical, CC	2, water spray or regular foam.			
Unsuitable extinguishing media			Do not spread spilled material with high-pressure water streams.				
5.2 Spec	ial hazards arising from	the	e substance or mi	xture			
Spe fight	cific hazards during fire ting	:	Do not allow run- courses.	off from fire fighting to enter drains or water			
Haz ucts	ardous combustion prod-	:	Halogenated compounds Nitrogen oxides (NOx) Carbon oxides				
5.3 Advi	ce for firefighters						
	cial protective equipment ire-fighters	:	: Firefighters should wear protective clothing and self-contai breathing apparatus.				
Further information			must not be disch Fire residues and	ated fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.			

SECTION 6: Accidental release measures

6.1	•		equipment and emergency procedures Use personal protective equipment. Ensure adequate ventilation.
6.2	Environmental precautions		
	Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3	Methods and material for cont	air	nment and cleaning up
	Methods for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
6.4	Reference to other sections		
			See sections: 7, 8, 11, 12 and 13.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on safe handling Avoid formation of aerosol. 2 Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Advice on protection against : Normal measures for preventive fire protection. fire and explosion Hygiene measures When using do not eat or drink. When using do not smoke. : Wash hands before breaks and at the end of workday. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Electrical installa- tions / working materials must comply with the technological safety standards.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Routes of expo-	Potential health ef-	Value
		sure	fects	
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
reaction mass of 5- chloro-2-methyl-2H- isothiazol-3-one and	Workers	Inhalation	Long-term local ef- fects	0.02 mg/m3



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	thyl-2H- azol-3-one (3:1)								
		Workers		Inhalation		Acute local effects		0.04 mg/m3	
		Consume	rs	Inhalation		Long-term local ef- fects		0.02 mg/m3	
		Consume	rs	Inhalation		Acute local effects		0.04 mg/m3	
		Consume	Consumers				Long-term systemic effects		0.09 mg/kg
		Consume	rs	Oral		Acute systemic ef- fects		0.11 mg/kg	
Predi	icted No Effect C	oncentratio	on (PN	IEC) accoi	ding to	Regulation (EC) No	. 19	07/2006:	
Subst	tance name		Envir	onmental C	compartr	nent	Va	alue	
propa	ane-1,2-diol		Fresh water			26	60 mg/l		
			Intermittent use/release			183 mg/l			
			Sea water Sewage treatment plant			26 mg/l 20 g/l			
			Fres	h water sed	iment		57	'2 mg/kg	
			Sea	sediment			57	.2 mg/kg	
			Soil				50	mg/kg	
methy	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one		Fres	h water				00339 mg/l	

	Sewage treatment plant	20 g/l
	Fresh water sediment	572 mg/kg
	Sea sediment	57.2 mg/kg
	Soil	50 mg/kg
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Fresh water	0.00339 mg/l
	Intermittent use/release	0.00339 mg/l
	Sea water	0.00339 mg/l
	Sewage treatment plant	0.23 mg/l
	Fresh water sediment	0.027 mg/kg
	Sea sediment	0.027 mg/kg

8.2 Exposure controls

Personal protective equipment						
Eye protection :	Eye wash bottle with pure water Tightly fitting safety goggles					
Hand protection						
Material :	Protective gloves					
Remarks :	The suitability for a specific workplace should be discussed with the producers of the protective gloves.					
Skin and body protection :	Impervious clothing Choose body protection according to the amount and concen- tration of the dangerous substance at the work place.					
Respiratory protection :	In the case of dust or aerosol formation use respirator with an approved filter.					
Protective measures :	Plan first aid action before beginning work with this product.					



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SECTIO	N 9: Physical and che	emic	al properties	
9.1 Inforn	nation on basic physic	al an	d chemical prop	erties
	arance	:	liquid	
Color	r	:	off-white	
Odor		:	odorless	
Odor	Threshold	:	No data availabl	le
рН		:	7.3 Concentration: 1	10 g/l
Melti	ng point/range	:	No data availabl	le
Boilir	ng point/boiling range	:	No data availabl	le
Flash	n point	:	No data availabl	le
	er explosion limit / Upper nability limit	:	No data availabl	e
	er explosion limit / Lower nability limit	:	No data availabl	e
Vapo	or pressure	:	No data availabl	le
Dens	iity	:	1.08 g/cm3	
			No data availabl	le
	bility(ies) /ater solubility	:	No data availabl	le
	tion coefficient: n- nol/water	:	No data availabl	le
Autoi	gnition temperature	:	No data availabl	le
Deco	mposition temperature	:	No data availabl	le
Visco Vi	osity iscosity, dynamic	:	474 mPa.s 50 rpm	
Vi	iscosity, kinematic	:	No data availabl	le
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	Non-oxidizing	

9.2 Other information



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Self-i	gnition	: > 800 °C	
SECTION	10: Stability and re	eactivity	
10.1 Reac	tivity		
		No decor	mposition if stored and applied as directed.
10.2 Cher	nical stability		
			mposition if stored and applied as directed.
	ibility of hazardous re		
Haza	rdous reactions	: No decompos	sition if stored and applied as directed.
10.4 Conc	litions to avoid		
Cond	itions to avoid	: Avoid extreme Avoid formation	
		No data availa	able
10.5 Incoi	npatible materials		
	rials to avoid	: Avoid strong a	acids, bases, and oxidizers.
		Not applicable	9

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity :	LC50: > 3.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity :	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity



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<u>Com</u>	oonents:		
Cyan	traniliprole:		
-	oral toxicity		: > 5,000 mg/kg ECD Test Guideline 425
Acute	inhalation toxicity	Exposure t Test atmos Method: O	phere: dust/mist ECD Test Guideline 403 nt: The substance or mixture has no acute inhala
Acute	e dermal toxicity		: > 5,000 mg/kg ECD Test Guideline 402
palyg	jorskite:		
Acute	oral toxicity	: Assessmer	nt: Toxic effects cannot be excluded
Acute	inhalation toxicity	: Assessmer	nt: Toxic effects cannot be excluded
Acute	e dermal toxicity	: Assessmer	nt: Toxic effects cannot be excluded
(3:1):		: LD50 Oral	thiazol-3-one and 2-methyl-2H-isothiazol-3-o (Rat, female): 200 mg/kg
	5	Method: O	FCD Test Guideline 423
Acute	inhalation toxicity	: LC50 (Rat, Exposure t Test atmos Method: O	ECD Test Guideline 423 male and female): 0.33 mg/l ime: 4 h phere: dust/mist ECD Test Guideline 403 nt: Corrosive to the respiratory tract.
		: LC50 (Rat, Exposure t Test atmos Method: Ol Assessmen	male and female): 0.33 mg/l ime: 4 h phere: dust/mist ECD Test Guideline 403
Acute	inhalation toxicity	: LC50 (Rat, Exposure t Test atmos Method: Ol Assessmen	male and female): 0.33 mg/l ime: 4 h phere: dust/mist ECD Test Guideline 403 nt: Corrosive to the respiratory tract.
Acute propa	e inhalation toxicity e dermal toxicity	 LC50 (Rat, Exposure t Test atmos Method: OI Assessment LD50 (Rab) 	male and female): 0.33 mg/l ime: 4 h phere: dust/mist ECD Test Guideline 403 nt: Corrosive to the respiratory tract.
Acute prop a Acute	e inhalation toxicity e dermal toxicity ane-1,2-diol:	 LC50 (Rat, Exposure t Test atmos Method: OI Assessmen LD50 (Rab LD50 (Rat, LC0 (Rabb Exposure t Test atmos 	male and female): 0.33 mg/l ime: 4 h phere: dust/mist ECD Test Guideline 403 ht: Corrosive to the respiratory tract. bit, male): 87 mg/kg male and female): 22,000 mg/kg it): 31.7 mg/l
Acute propa Acute Acute	e inhalation toxicity e dermal toxicity ane-1,2-diol: e oral toxicity	 LC50 (Rat, Exposure t Test atmos Method: OI Assessmen LD50 (Rab LD50 (Rat, LC0 (Rabb Exposure t Test atmos Remarks: r LD50 (Rab 	male and female): 0.33 mg/l ime: 4 h phere: dust/mist ECD Test Guideline 403 nt: Corrosive to the respiratory tract. bit, male): 87 mg/kg male and female): 22,000 mg/kg it): 31.7 mg/l ime: 2 h phere: vapor to mortality bit): > 2,000 mg/kg
Acute propa Acute Acute	e inhalation toxicity e dermal toxicity ane-1,2-diol: e oral toxicity e inhalation toxicity	 LC50 (Rat, Exposure t Test atmos Method: OI Assessmen LD50 (Rab LC0 (Rabb Exposure t Test atmos Remarks: r LD50 (Rab Assessmen 	male and female): 0.33 mg/l ime: 4 h phere: dust/mist ECD Test Guideline 403 nt: Corrosive to the respiratory tract. bit, male): 87 mg/kg male and female): 22,000 mg/kg it): 31.7 mg/l ime: 2 h phere: vapor no mortality bit): > 2,000 mg/kg
Acute propa Acute Acute	e inhalation toxicity e dermal toxicity ane-1,2-diol: e oral toxicity e inhalation toxicity e dermal toxicity	 LC50 (Rat, Exposure t Test atmos Method: OI Assessmen LD50 (Rab LC0 (Rabb Exposure t Test atmos Remarks: r LD50 (Rab Assessmen 	male and female): 0.33 mg/l ime: 4 h phere: dust/mist ECD Test Guideline 403 nt: Corrosive to the respiratory tract. bit, male): 87 mg/kg male and female): 22,000 mg/kg it): 31.7 mg/l ime: 2 h phere: vapor no mortality



sion	Revision Date: 21.02.2022	SDS Number: 50000117	Date of last issue: - Date of first issue: 19.02.2019
Metho		: OECD Test Gu	-
Resul	t	: No skin irritatio	on la
<u>Comp</u>	oonents:		
Cyant	traniliprole:		
Specie		: Rabbit	
Metho		: OECD Test Gu	
Resul	t	: No skin irritatio	ט ר
palyg	orskite:		
Rema	irks	: No data availa	ble
reacti (3:1):	on mass of 5-chlor	o-2-methyl-2H-isothia	zol-3-one and 2-methyl-2H-isothiazol-3-or
Metho	bd	: OECD Test Gu	uideline 404
Resul	t	: Corrosive after	1 to 4 hours of exposure
propa	ane-1,2-diol:		
<u> </u>	es	: Rabbit	
Specie			
Metho	od	: OECD Test Gu	-
	od	: OECD Test Gu : No skin irritatio	-
Metho Result	od	: No skin irritatio	-
Metho Result	od t us eye damage/eye	: No skin irritatio	on
Metho Result Serior <u>Produ</u> Asses	od t us eye damage/eye <u>uct:</u> ssment	: No skin irritation : Not classified a	as irritant
Metho Result Serior <u>Produ</u> Asses Metho	od t us eye damage/eye <u>uct:</u> ssment od	: No skin irritation irritation : Not classified a : OECD Test Gu	as irritant uideline 405
Metho Result Serior <u>Produ</u> Asses	od t us eye damage/eye <u>uct:</u> ssment od	: No skin irritation : Not classified a	as irritant uideline 405
Metho Result Serior Produ Asses Metho Result	od t us eye damage/eye <u>uct:</u> ssment od	: No skin irritation irritation : Not classified a : OECD Test Gu	as irritant uideline 405
Metho Result Serior Produ Asses Metho Result Comp	od t us eye damage/eye u <u>ct:</u> ssment od t	: No skin irritation irritation : Not classified a : OECD Test Gu	as irritant uideline 405
Metho Result Serior Produ Asses Metho Result Comp Cyant Specie	od t us eye damage/eye <u>uct:</u> ssment od t t <u>ponents:</u> traniliprole: es	 No skin irritation irritation Not classified a OECD Test Gu No eye irritation : Rabbit 	as irritant uideline 405 n
Metho Result Serior Produ Asses Metho Result Comp Specie Asses	od t us eye damage/eye <u>uct:</u> ssment od t t ponents: traniliprole: es ssment	 No skin irritation irritation Not classified a OECD Test Gu No eye irritation : No eye irritation : Rabbit : Not classified a 	as irritant uideline 405 n
Methor Result Serior Produ Asses Methor Result Cyant Specie Asses Methor	od t us eye damage/eye <u>uct:</u> ssment od t ponents: traniliprole: es ssment od	 No skin irritation irritation Not classified a OECD Test Gu No eye irritation Rabbit Not classified a OECD Test Gu 	as irritant uideline 405 n as irritant uideline 405
Metho Result Serior Produ Asses Metho Result Specie Asses Metho Result	od t us eye damage/eye <u>uct:</u> ssment od t ponents: traniliprole: es ssment od t	 No skin irritation irritation Not classified a OECD Test Gu No eye irritation Rabbit Not classified a OECD Test Gu OECD Test Gu No eye irritatio 	as irritant uideline 405 n as irritant uideline 405 n
Methor Result Serior Produ Asses Methor Result Cyant Specie Asses Methor	od t us eye damage/eye <u>uct:</u> ssment od t ponents: traniliprole: es ssment od t	 No skin irritation irritation Not classified a OECD Test Gu No eye irritation Rabbit Not classified a OECD Test Gu OECD Test Gu No eye irritatio 	as irritant uideline 405 n as irritant uideline 405
Metho Result Serior Asses Metho Result Comp Cyant Specie Asses Metho Result Rema	od t us eye damage/eye <u>uct:</u> ssment od t ponents: traniliprole: es ssment od t t	 No skin irritation irritation Not classified a OECD Test Gu No eye irritation Rabbit Not classified a OECD Test Gu No eye irritatio Mo eye irritatio Minimal effects tion. 	as irritant uideline 405 n as irritant uideline 405 n s that do not meet the threshold for classifica
Metho Result Serior Asses Metho Result Cyant Specie Asses Metho Result Rema	od t us eye damage/eye <u>uct:</u> ssment od t ponents: traniliprole: es ssment od t urks	 No skin irritation irritation Not classified a OECD Test Ga No eye irritation No eye irritation Not classified a OECD Test Ga OECD Test Ga OECD Test Ga No eye irritation Minimal effects tion. 	as irritant uideline 405 n as irritant uideline 405 n
Metho Result Seriou Asses Metho Result Comp Cyant Specie Asses Metho Result Rema reacti (3:1): Result	od t us eye damage/eye <u>uct:</u> ssment od t ponents: traniliprole: es ssment od t urks	 No skin irritation irritation Not classified a OECD Test Ga No eye irritation No eye irritation Not classified a OECD Test Ga OECD Test Ga OECD Test Ga No eye irritation Minimal effects tion. 	as irritant uideline 405 n as irritant uideline 405 n s that do not meet the threshold for classifica izol-3-one and 2-methyl-2H-isothiazol-3-or
Metho Result Serion Asses Metho Result Specia Asses Metho Result Rema reacti (3:1): Result Result Result	and t t t t t t t t t t t t t t t t t t t	 No skin irritation irritation Not classified a OECD Test Ga No eye irritation No eye irritation Not classified a OECD Test Ga OECD Test Ga OECD Test Ga No eye irritation Minimal effects tion. 	as irritant uideline 405 n as irritant uideline 405 n s that do not meet the threshold for classifica- izol-3-one and 2-methyl-2H-isothiazol-3-or
Metho Result Seriou Asses Metho Result Comp Cyant Specie Asses Metho Result Rema reacti (3:1): Result	ad t us eye damage/eye <u>uct:</u> ssment od t ponents: traniliprole: es ssment od t trks fon mass of 5-chlore t t ane-1,2-diol: es	 No skin irritation irritation Not classified a OECD Test Gu No eye irritation So eye irritation Not classified a OECD Test Gu No eye irritation Minimal effects tion. 	as irritant uideline 405 n as irritant uideline 405 n s that do not meet the threshold for classifica- izol-3-one and 2-methyl-2H-isothiazol-3-or ects on the eye



rsion)	Revision Date: 21.02.2022		08 Number: 000117	Date of last issue: - Date of first issue: 19.02.2019
Respi	iratory or skin sensitiz	atic	n	
<u>Produ</u>	<u>ict:</u>			
Asses	sment	:	Not a skin sens	itizer.
Metho	bd	:	OECD Test Gu	ideline 429
Comp	oonents:			
Cyant	traniliprole:			
Metho		:	OECD Test Gu	
Resul	t	:	Does not cause	e skin sensitization.
	orskite:			
Rema	irks	:	No data availat	le
reacti (3:1):	on mass of 5-chloro-2	2-me	thyl-2H-isothia	zol-3-one and 2-methyl-2H-isothiazol-3-on
Test T		:	Local lymph no	de assay (LLNA)
Specie		:	Mouse	
Resul	t	:	The product is	a skin sensitizer, sub-category 1A.
propa	ne-1,2-diol:			
Test T		:	Maximization T	est
Specie Resul		:	Guinea pig	
Resul	L	•	negative	
Germ	cell mutagenicity			
<u>Comp</u>	oonents:			
Cyant	traniliprole:			
		:		ial or mammalian cell cultures did not show
sessm	nent		mutagenic effe	cts.
propa	ne-1,2-diol:			
Genot	toxicity in vitro	:	Test Type: reve Result: negative	erse mutation assay e
Genot	toxicity in vivo	:	Test Type: In vi Species: Mouse Result: negative	
Carci	nogenicity			
Comp	oonents:			
Cyant	traniliprole:			
-	nogenicity - Assess-	:	Weight of evide	nce does not support classification as a car-
ment			cinogen	



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p	ropane-1,2-diol:			
S A E	pecies oplication Route xposure time esult	: : : :	Rat Oral 2 Years negative	
R	eproductive toxicity			
<u>c</u>	omponents:			
С	yantraniliprole:			
	eproductive toxicity - As- essment	:	Weight of evidence ductive toxicity	e does not support classification for repro-
р	ropane-1,2-diol:			
E	ffects on fertility	:	Test Type: reprod Species: Mouse Application Route Result: negative	uctive and developmental toxicity study : Oral
E	ffects on fetal development	:	Species: Mouse Application Route Method: OECD To Result: Animal tes	
S	TOT-single exposure			
<u>c</u>	omponents:			
С	yantraniliprole:			
A	ssessment	:	The substance or organ toxicant, sin	mixture is not classified as specific target ngle exposure.
S	TOT-repeated exposure			
<u>c</u>	omponents:			
С	yantraniliprole:			
	ssessment	:	The substance or organ toxicant, re	mixture is not classified as specific target peated exposure.
R	epeated dose toxicity			
<u>C</u>	omponents:			
S N A E	yantraniliprole: pecies OAEL pplication Route xposure time ethod	:	Rat > 1,000 mg/kg Oral 28 d OECD Test Guide	eline 407



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	nptoms marks	:	increased liver weightBased on available data, the classification criteria are not met.					
	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):							
NO	ecies AEL plication Route	:	Dog 22 mg/kg Oral					
NO	ecies AEL plication Route	:	Rat 16.3 - 24.7 mg/kg Skin contact					
NO	ecies AEL plication Route	:	Rat 2.36 mg/m³ Inhalation					
pro	ppane-1,2-diol:							
NO Apj	ecies AEL plication Route posure time	:	Rat, male and fer 1,700 mg/kg Oral 2 Years	nale				
NO LO App	ecies AEL AEL plication Route posure time	:	Rat, male and fer 1,000 mg/kg 160 mg/kg Inhalation 90 Days	nale				
Fu	rther information							
	oduct: marks	:	No data available					
SECTIO	ON 12: Ecological infor	ma	tion					
12.1 To	xicity							
	oduct:							
	kicity to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): > 99 mg/l ວິ h				
	kicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.0421 mg/l 3 h				

: ErC50 (Pseudokirchneriella subcapitata (green algae)): > 66.3 Toxicity to algae/aquatic mg/l Exposure time: 72 h

Toxicity to soil dwelling or- ganisms	:	> 1,000 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms)
--	---	--

plants



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	Toxicity isms	to terrestrial organ-	:	LD50: 2.18 Exposure time: 96 Species: Apis mel Remarks: Oral	
				LD50: 3.55 Exposure time: 96 Species: Apis mel Remarks: Contact	llifera (bees)
<u>(</u>	Compo	nents:			
(Cyantra	aniliprole:			
-	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 12.6 mg/l ò h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0204 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 1; 2 h
				ErC50 (Lemna gib Exposure time: 7	oba (duckweed)): > 12.1 mg/l d
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 2.9 mg/l Exposure time: 28 Species: Cyprinoc	3 d Jon variegatus (sheepshead minnow)
â		to daphnia and other invertebrates (Chron- y)	:	NOEC: 0.00656 m Exposure time: 21 Species: Daphnia	
	Toxicity ganisms	to soil dwelling or- s	:	LC50: > 1,000 mg Exposure time: 14 Species: Eisenia f	
	Toxicity isms	to terrestrial organ-	:	LD50: > 0.0934 µg Exposure time: 48 End point: Acute of Species: Apis mel	h contact toxicity
				LD50: > 0.1055 µg Exposure time: 48 End point: Acute of Species: Apis mel	h pral toxicity
				LD50: 2,250 mg/k Species: Colinus	g virginianus (Bobwhite quail)



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p	balygo	rskite:					
E	Ecotox	icology Assessment					
	Acute aquatic toxicity		:	: Toxic effects cannot be excluded			
C	Chronic	aquatic toxicity	:	Toxic effects canr	not be excluded		
	eactio 3:1):	n mass of 5-chloro-2-	·me	thyl-2H-isothiazol	-3-one and 2-methyl-2H-isothiazol-3-one		
•		v to fish	:	LC50 (Oncorhync Exposure time: 96 GLP: yes	hus mykiss (rainbow trout)): 0.19 mg/l } h		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.16 mg/l 3 h		
				NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.1 mg/l I Days		
				EC50 (Daphnia m Exposure time: 21	agna (Water flea)): 0.18 mg/l I Days		
	Foxicity plants	to algae/aquatic	:	NOEC (Skeletone Exposure time: 48 Method: OECD Te			
				NOEC (Skeletone Exposure time: 72 Method: OECD Te			
				EC50 (Skeletoner Exposure time: 48 Method: OECD Te			
Т	Foxicity	to microorganisms	:	NOEC (activated Exposure time: 3 Method: OECD Te GLP: yes	h		
				EC50 (activated s Exposure time: 3 Method: OECD Te GLP: yes	h		
	Гохісіty city)	v to fish (Chronic tox-	:	NOEC: 0.02 mg/l Exposure time: 38 Species: Danio re Method: OECD Te GLP: yes	rio (zebra fish)		
a		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.1 mg/l Exposure time: 21 Species: Daphnia	l d magna (Water flea)		



Vers 2.0	sion	Revision Date: 21.02.2022		0S Number: 000117	Date of last issue: - Date of first issue: 19.02.2019
				Chronic Toxicity V Exposure time: 21 Species: Daphnia	
	nronar	ne-1,2-diol:			
	• •	/ to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h	
	Toxicity to daphnia and other aquatic invertebrates		:	(Mysidopsis bahia (opossum shrimp)): 18,800 mg/l Exposure time: 96 h	
	Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green algae)): 34,10 mg/l Exposure time: 48 h Method: OECD Test Guideline 201	
	Toxicity	/ to microorganisms	:	EC50 (Pseudomo Exposure time: 18	onas putida): > 20,000 mg/l 3 h
	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	NOEC: 13,020 mg/l Exposure time: 7 d	
12.2	12.2 Persistence and degradabili		ity		
	Compo	onents:			
	Cyantr	aniliprole:			
	Biodeg	radability	:	Remarks: Not rea	dily biodegradable.
reaction mass of 5-chloro-2- (3:1):		-me	thyl-2H-isothiazol	I-3-one and 2-methyI-2H-isothiazoI-3-one	
	. ,	radability	:	Result: Readily bi	odegradable.
	• •	n e-1,2-diol: radability	:	Result: Readily bi Biodegradation: 2 Exposure time: 64 Method: OECD Te	23.6 % 4 d
12.3 Bioaccumulative potential					
	Compo	onents:			
	-	aniliprole: umulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): < 1 umulation is unlikely.
	Partitio octanol	n coefficient: n- /water	:	log Pow: 1.97 (22 pH: 4	°C)



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			log Pow: 2.07 (22 pH: 7	2 °C)		
			log Pow: 1.74 (22 pH: 9	2 °C)		
	action mass of 5-chloro-2 :1):	2-me	ethyl-2H-isothiazo	I-3-one and 2-methyl-2H-isothiazol-3-one		
•	oaccumulation	:		8 d factor (BCF): < 54 rest Guideline 305		
	artition coefficient: n- tanol/water	:	Pow: 0.75			
Pa	opane-1,2-diol: artition coefficient: n- tanol/water	:	log Pow: -1.07			
12.4 Mobility in soil						
<u>Co</u>	omponents:					
Di	/antraniliprole: stribution among environ- ental compartments	:	Remarks: The pr	oduct is not expected to be mobile in soils.		
12.5 Results of PBT and vPvB assessment Not relevant						
12.6 Ot	ther adverse effects					
Ac	oduct: Iditional ecological infor- ation	:	unprofessional ha	l hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.		
SECT	SECTION 13: Disposal considerations					
13.1 W	aste treatment methods					
Pr	oduct	:	courses or the so	Ild not be allowed to enter drains, water il. ate ponds, waterways or ditches with chemi-		

Contaminated packaging	:	Empty remaining contents. Dispose of as unused product.
		Do not re-use empty containers.

cal or used container.

Send to a licensed waste management company.



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	N 44. Trononort infor		41a.a		
SECTIO	N 14: Transport infor	ma	lion		
14.1 UN	number				
IMD	G	:	: UN 3082		
IAT	A	:	UN 3082		
14.2 UN	proper shipping name				
IMD	G	:	ENVIRONMENTA N.O.S. (Cyantran	ALLY HAZARDOUS SUBSTANCE, LIQUID, iliprole)	
IATA 14.3 Transport hazard class(es)		:	ENVIRONMENTA	ALLY HAZARDOUS SUBSTANCE, LIQUID, iliprole)	
IMD	G	:	9		
IAT	٩	:	9		
14.4 Packing group					
Labe	king group	:	III 9 F-A, S-F		
Pacl aircr Pacl	king instruction (LQ) king group		964 Y964 III Miscellaneous		
Pacl ger a Pacl Pacl Labe		:	964 Y964 III Miscellaneous		
14.5 Env	ironmental hazards				

IMDG

Marine pollutant

: yes

14.6 Special precautions for user

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

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

Not applicable for product as supplied.



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SECTION 15: Regulatory information

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

The ingredients of this product are reported in the following inventories:					
TCSI	:	On the inventory, or in compliance with the inventory			
TSCA	:	Product contains substance(s) not listed on TSCA inventory.			
AIIC	:	Not in compliance with the inventory			
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.			
		3-BROMO-1-(3-CHLORO-2-PYRIDYL)-4'-CYAN-2'-METHYL- 6'-(METHYLCARBAMOYL)-1H-PYRAZOLE-5- CARBOXANILIDE			
		ACTI-GEL 208 (ACTIVE MINERALS)			
ENCS	:	Not in compliance with the inventory			
ISHL	:	Not in compliance with the inventory			
KECI	:	Not in compliance with the inventory			
PICCS	:	Not in compliance with the inventory			
IECSC	:	Not in compliance with the inventory			
NZIoC	:	Not in compliance with the inventory			
TECI	:	Not in compliance with the inventory			

15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of H-Statements	
H301 :	Toxic if swallowed.
H310 :	Fatal in contact with skin.
H314 :	Causes severe skin burns and eye damage.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H330 :	Fatal if inhaled.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic 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



Skin Sens.

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Eye [Skin		: Serious eye da : Skin corrosion	•

Skin sensitization

•

:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Other information

Classification of the	e mixture:	Classification procedure:
Acute Tox. 4	H332	Based on product data or assessment
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Calculation method

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