

# Viatude<sup>™</sup> Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/24/2023	800080100666	Date of first issue: 02/24/2023

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 Canada and may not meet the regulatory requirements in other countries.

### **SECTION 1. IDENTIFICATION**

Product name	:	Viatude™ Fungicide
Other means of identification	:	No data available

### Manufacturer or supplier's details

### **COMPANY IDENTIFICATION**

Manufacturer/importer	: CORTEVA AGRISCIENCE CANADA COMPANY #2450, 215 - 2ND STREET S.W. CALGARY AB, T2P 1M4 CANADA			
Customer Information	: 800-667-3852			
E-mail address	: solutions@corteva.com			
Emergency telephone number	: CANUTEC			
number	1-888-226-8832			
Recommended use of the chemical and restrictions on use				

#### Recommended use of the chemical and restrictions on use

Recommended use : End use fungicide product

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Picoxystrobin	Picoxystrobin	117428-22-5	17.05
prothioconazole (ISO)	prothioconazole (ISO)	178928-70-6	5.68
Propanediol	Propanediol	57-55-6	>= 3 - < 10 *
Balance	Balance	Not Assigned	> 60

\* Actual concentration or concentration range is withheld as a trade secret

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SECTIO	ON 4. FIRST AID MEASU	RES		
If inhaled In case of skin contact In case of eye contact		<ul> <li>Move person to fresh air; if effects occur, consult a physician.</li> <li>Wash off with plenty of water.</li> <li>Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.</li> </ul>		
Mo	swallowed ost important symptoms d effects, both acute and layed	<ul><li>No emergency medical treatment necessary.</li><li>None known.</li></ul>		
	otection of first-aiders	<ul> <li>First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical re sistant gloves, splash protection).</li> <li>If potential for exposure exists refer to Section 8 for specific personal protective equipment.</li> </ul>		
Nc	ites to physician	: No specific an Treatment of		

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water courses.
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)
Specific extinguishing meth- ods	:	Carbon oxides Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use extinguishing measures that are appropriate to local cir-
Further information	:	cumstances and the surrounding environment. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must
Special protective equipment for firefighters	:	be disposed of in accordance with local regulations. Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities.



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	s and materials for nent and cleaning up	Prevent fur Prevent sp barriers). Retain and Local author cannot be Prevent fro See Sectio : Clean up re ant. Local or na posal of thi employed i For large s ment to ke be pumped Recovered The vent m with spilled pressurizat Keep in su Wipe up wi Soak up wi acid binder	m entering into soil, ditches, sewers, underwater. n 12, Ecological Information. emaining materials from spill with suitable absorb- tional regulations may apply to releases and dis- s material, as well as those materials and items n. pills, provide dyking or other appropriate contain- ep material from spreading. If dyked material can
Advice c	HANDLING AND ST on safe handling	: Do not brea Handle in a practice. Smoking, e plication ar Take care environmen Use approp refer to Se	to prevent spills, waste and minimize release to the nt. priate safety equipment. For additional information, ction 8, Exposure Controls and Personal Protection.
Conditio	ns for safe storage	: Store in a c Containers kept uprigh Keep in pro	closed container. which are opened must be carefully resealed and t to prevent leakage. operly labelled containers. cordance with the particular national regulations.
	s to avoid ng material	: Strong oxid	lizing agents material: None known.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propanediol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m3	CA ON OEL
		TWA (aero- sol)	10 mg/m3	CA ON OEL



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Engi	neering measures	maintain airb guidelines. If ments or guid for most oper	aust ventilation, or other engineering controls to orne levels below exposure limit requirements or there are no applicable exposure limit require- delines, general ventilation should be sufficient rations. t ventilation may be necessary for some opera-		
Pers	onal protective equip	nent			
Resp	Respiratory protection		Respiratory protection should be worn when there is a poten- tial to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experi- enced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an ap- proved air-purifying respirator.		
Hand	d protection				
R	emarks	preferred glov ral rubber ("la trile" or "NBR ("EVAL"). Pol selection of a duration of us all relevant w er chemicals (cut/puncture tial body read	hemically resistant to this material. Examples of ve barrier materials include: Butyl rubber. Natu- atex"). Neoprene. Nitrile/butadiene rubber ("ni- "). Polyethylene. Ethyl vinyl alcohol laminate yvinyl chloride ("PVC" or "vinyl"). NOTICE: The specific glove for a particular application and se in a workplace should also take into account orkplace factors such as, but not limited to: Oth- which may be handled, physical requirements protection, dexterity, thermal protection), poten- tions to glove materials, as well as the instruc- ations provided by the glove supplier.		
Eye	protection	: Use safety gl If there is a p	asses (with side shields). otential for exposure to particles which could scomfort, wear chemical goggles.		
Skin	and body protection	: Use protectiv Selection of s	e clothing chemically resistant to this material. specific items such as face shield, boots, apron, uit will depend on the task.		

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	off-white
Odour	:	sweet
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	Not applicable
Freezing point		No data available
Boiling point/boiling range	:	No data available
	:	> 100 °C

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	Flash point			Method: closed cup	
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	No data available	2
		explosion limit / Upper ibility limit	:	No data available	)
		explosion limit / Lower ibility limit	:	No data available	
	Vapour	pressure	:	No data available	2
	Relative	e vapour density	:	No data available	)
	Density		:	1.0988 g/cm3 (20 approximately	0 °C)
	Solubility(ies) Water solubility		:	No data available	
	Auto-ig	nition temperature	:	No data available	9
	Viscosity Viscosity, dynamic		:	770 cP ( 20 °C) 30 rpm	
				2,150.0 cP ( 40 ° 30 rpm	C)
	Explosi	ve properties	:	No	
	Oxidizir	ng properties	:	No significant inc	rease (>5C) in temperature.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability	:	Not classified as a reactivity hazard. No decomposition if stored and applied as directed. Stable under normal conditions.
Possibility of hazardous reac- tions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. None known.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. None. Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Nitrogen oxides (NOx) Carbon oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### Product:

Acute oral	l toxicity
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: LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423



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Acute	inhalation toxicity	Exposure tim Test atmospl	nale and female): > 5.3 mg/l e: 4 h nere: dust/mist CD Test Guideline 436		
Com	ponents:				
Pico	xystrobin:				
Acute	e oral toxicity		emale): > 5,000 mg/kg CD Test Guideline 425		
Acute	e inhalation toxicity	Exposure tim Test atmosph Method: OEC Remarks: Th technical mat <4 µm, indica that the study relevant to pi	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 relevant to picoxystrobin in the supplychain. Material milled to a particle size of 3.4 - 4.1 $\mu$ m MMAD		
Acute	e dermal toxicity	: LD50 (Rat): > Method: OE0	> 5,000 mg/kg CD Test Guideline 402		
proth	nioconazole (ISO):				
Acute	e oral toxicity	: LD50 (Rat): > Method: OPF	> 6,200 mg/kg PTS 870.1100		
Acute	e inhalation toxicity	Assessment: tion toxicity			
Acute	e dermal toxicity	Method: OPF	): > 2,000 mg/kg PTS 870.1200 The substance or mixture has no acute dermal		
Prop	anediol:				
Acute	e oral toxicity	: LD50 (Rat): >	> 20,000 mg/kg		
Acute	e inhalation toxicity	Exposure tim Test atmospl Symptoms: N Assessment: tion toxicity	nere: dust/mist lo deaths occurred at this concentration. The substance or mixture has no acute inhala- st may cause irritation of upper respiratory tract		
Acute	e dermal toxicity	Symptoms: N	): > 2,000 mg/kg lo deaths occurred at this concentration. The substance or mixture has no acute dermal		



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ersion .0	Revision Date: 02/24/2023		0S Number: 0080100666	Date of last issue: - Date of first issue: 02/24/2023
Skin c	orrosion/irritation			
<u>Produ</u> Specie Metho	s	:	Rabbit OECD Test Guid	deline 404
<u>Comp</u>	onents:			
Picoxy	/strobin:			
Specie Metho Result		:	Rabbit OECD Test Guid No skin irritation	
<b>prothi</b> Specie Result	<b>oconazole (ISO):</b> s	:	Rabbit No skin irritation	
<b>Propa</b> Specie Result	<b>nediol:</b> s	:	Rabbit No skin irritation	
Seriou	ıs eye damage/eye i	rritati	on	
<u>Produ</u> Result Metho		:	No eye irritation OECD Test Guid	
<u>Comp</u>	onents:			
Picoxy	/strobin:			
Specie Result Methor		:	Rabbit Mild eye irritation OECD Test Guid	
prothi	oconazole (ISO):			
Specie Result Methor		:	Rabbit No eye irritation US EPA Test G	uideline OPPTS 870.2400
Propa	nediol:			
Specie Result	S	:	Rabbit No eye irritation	
Respir	atory or skin sensit	isatio	on	
Produ	<u>ct:</u>			
Test Ty Specie Metho	S	:	Local lymph nod Mouse OECD Test Guid	-
Comp	onents:			
Picoxy	/strobin:			
Test Ty Specie Methoo Result	S	:	Maximisation Te Guinea pig OECD Test Guid Does not cause	



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prothi	oconazole (ISO):		
Species Assessment Method Remarks		: US EPA Test (	e skin sensitisation. Guideline OPPTS 870.2600 allergic skin reactions when tested in guinea
Remar	ks	: For respiratory No relevant da	
Propa	nediol:		
Specie Assess		: human : Does not caus	e skin sensitisation.
Germ	cell mutagenicity		
<u>Comp</u>	onents:		
Picoxy	/strobin:		
Germ ( Assess	cell mutagenicity -	: Weight of evid cell mutagen.	ence does not support classification as a germ
-	oconazole (ISO):		
Germ ( Assess	cell mutagenicity - sment		c toxicity studies were negative., Animal genetic
Propa	nediol:		
Germ o Assess	cell mutagenicity - sment		toxicity studies were negative., Animal genetic were negative.
Carcir	ogenicity		
<u>Comp</u>	onents:		
•	<b>ystrobin:</b> ogenicity - Assess-	: Animal testing	did not show any carcinogenic effects.
prothi	oconazole (ISO):		
Carcino ment	ogenicity - Assess-	: Did not cause	cancer in laboratory animals.
-	<b>nediol:</b> ogenicity - Assess-	: Did not cause	cancer in laboratory animals.
Repro	ductive toxicity		
<u>Comp</u>	onents:		
-	<b>/strobin:</b> ductive toxicity - As- ent	: No toxicity to r Animal testing ment.	eproduction did not show any effects on foetal develop-
prothi	oconazole (ISO):		
-	ductive toxicity - As-		nimal studies, effects on reproduction have y at doses that produced significant toxicity to nals.



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		toxic	caused birth defects in laboratory animals only at dose to the mother., Has been toxic to the fetus in laborato als at doses toxic to the mother.
Propa	anediol:		
Repro sessm	ductive toxicity - As- nent	mal s Did no	mal studies, did not interfere with reproduction., In an tudies, did not interfere with fertility. ot cause birth defects or any other fetal effects in labo nimals.
STOT	- single exposure		
Comp	oonents:		
Picox	ystrobin:		
Asses	sment		ubstance or mixture is not classified as specific target toxicant, single exposure.
proth	ioconazole (ISO):		
Asses	sment		ation of available data suggests that this material is no OT-SE toxicant.
Propa	anediol:		
Asses	sment		ation of available data suggests that this material is no OT-SE toxicant.
STOT	- repeated exposure	;	
<u>Comp</u>	oonents:		
Picox	ystrobin:		
Asses	sment		ubstance or mixture is not classified as specific target toxicant, repeated exposure.
Repea	ated dose toxicity		
Comp	oonents:		
proth	ioconazole (ISO):		
Applic	ation Route	: Inges	
Methc Rema			y. id.
Propa	anediol:		
Rema	rks		e cases, repeated excessive exposure to propylene gl ay cause central nervous system effects.
Aspir	ation toxicity		
Comp	oonents:		
Picox			

# prothioconazole (ISO):

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



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	<b>Propar</b> Based	<b>nediol:</b> on physical properties,	not	likely to be an asp	iration hazard.
EC	TION 1	2. ECOLOGICAL INFO	DRN	IATION	
	Ecotox	licity			
	Compo	onents:			
	Picoxy	strobin:			
	Toxicity	v to fish	:	LC50 (Pimephales End point: mortali Exposure time: 96 Test Type: Static Method: OECD Te	ĥ
				LC50 (Oncorhync End point: mortali Exposure time: 96 Test Type: Static Method: OECD Te	ĥ
		to daphnia and other invertebrates	:	EC50 (Daphnia m End point: Immob Exposure time: 48 Test Type: Static Method: OECD Te	3 h
				Exposure time: 96 Test Type: flow-th	
	Toxicity plants	v to algae/aquatic	:	EC50 (Selenastru mg/l End point: Growth Exposure time: 96 Test Type: Static	
				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 (Pseudokii mg/l Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	100	
	icity) Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28 Test Type: flow-th Method: OECD Te	rough





rsion )	Revision Date: 02/24/2023		S Number: 0080100666	Date of last issue: - Date of first issue: 02/24/2023	
			GLP: yes		
			NOEC (Cyprinode mg/l Exposure time: 3 Test Type: flow-ti		
			NOEC (Pimephal Exposure time: 3 Test Type: flow-t		
	v to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 2	magna (Water flea)): 0.008 mg/l 1 d est Guideline 202	
			Exposure time: 2 Test Type: flow-t		
	or (Chronic aquatic	:	10		
toxicity) Toxicity to soil dwelling or- ganisms		:		ida (earthworms)): 6.7 mg/kg est Guideline 207	
Toxicity isms	v to terrestrial organ-	:	LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg Method: US EPA Test Guideline OPP 71-1		
			mg/kg Exposure time: 5	linus virginianus (Bobwhite quail)): > 5,200 d est Guideline 205	
			mg/kg Exposure time: 5	as platyrhynchos (Mallard duck)): > 5,200 d est Guideline 205	
			Exposure time: 4	is mellifera (bees)): > 200 μg/bee 8 h PPO Test Guideline 170	
			Exposure time: 4	nellifera (bees)): > 200 µg/bee 8 h PPO Test Guideline 170	
prothic	oconazole (ISO):				
Toxicity to fish		:		al is very highly toxic to aquatic organisms or C50/EC50 <0.1 mg/L in the most sensitive	
			LC50 (Rainbow t Exposure time: 9	rout (Oncorhynchus mykiss)): 1.83 mg/l 6 h	



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	y to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.3 mg/l Exposure time: 48 h		
Toxicit plants	y to algae/aquatic	:	ErC50 (Pseudokir mg/l End point: Growth Exposure time: 72		
			ErC50 (Skeletone Exposure time: 72	ma costatum (marine diatom)): 0.046 mg/l 2 h	
M-Fac icity)	tor (Acute aquatic tox-	:	10		
	y to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 97	chus mykiss (rainbow trout)): 0.308 mg/l 7 d	
aquatio	y to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0.56 mg/l I d	
ic toxic M-Fac toxicity	tor (Chronic aquatic	:	10		
Propa	nediol:				
Toxicit	Toxicity to fish		LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203		
	Toxicity to daphnia and other aquatic invertebrates		LC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202		
Toxicit plants	Toxicity to algae/aquatic plants		ErC50 (Pseudokirchneriella subcapitata (green algae)): 19,000 mg/l End point: Growth rate inhibition Exposure time: 96 h Method: OECD Test Guideline 201		
aquatio	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l End point: number of offspring Exposure time: 7 d Test Type: semi-static test		
Toxicit	y to microorganisms	:	NOEC (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h		
Persis	stence and degradabilities	ity			
<u>Comp</u>	onents:				
-	<b>ystrobin:</b> yradability	:	Result: Not readily	y biodegradable.	
prothi	oconazole (ISO):				
-	radability	:		y biodegradable. I is expected to biodegrade very slowly (in Fails to pass OECD/EEC tests for ready	





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Propa	anediol:				
Biode	gradability	<ul> <li>aerobic</li> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 81 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301F or Equivalent</li> <li>Remarks: 10-day Window: Pass</li> </ul>			
		Biodegradation: 96 % Exposure time: 64 d Method: OECD Test Guideline 306 or Equivalent Remarks: 10-day Window: Not applicable			
	emical Oxygen De- (BOD)	: 69.000 % Incubation time: 5 d			
		70.000 % Incubation time: 10 d			
		86.000 % Incubation time: 20 d			
	ical Oxygen Demand	: 1.53 kg/kg			
(COD ThOD		: 1.68 kg/kg			
Photo	odegradation	: Rate constant: 1.28E-11 cm3/s Method: Estimated.			
	ccumulative potential ponents:				
Pico	xystrobin:				
Bioac	cumulation	<ul> <li>Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 290 Exposure time: 28 d Temperature: 22 °C Concentration: 0.05 mg/l</li> </ul>			
	ion coefficient: n- ol/water	: log Pow: 3.68 (20 °C)			
proth	ioconazole (ISO):				
-	cumulation	: Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 19.7			
	ion coefficient: n- ol/water	<ul> <li>log Pow: 3.82 (20 °C) pH: 7 Remarks: Bioconcentration potential is low (BCF &lt; 100 or Lo Pow &lt; 3).</li> </ul>			
Prop	anediol:				
-	cumulation	: Bioconcentration factor (BCF): 0.09 Method: Estimated.			
	ion coefficient: n- ol/water	<ul> <li>log Pow: -1.07</li> <li>Method: Measured</li> <li>Remarks: Bioconcentration potential is low (BCF &lt; 100 or Lo Pow &lt; 3).</li> </ul>			



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) 		80	0080100666	Date of first issue: 02/24/2023	
Balan	on coefficient: n-		Pomarka: No ra	levant data found.	
	ol/water	•	Remains. No re	ievant data lound.	
Mobil	ity in soil				
<u>Comp</u>	oonents:				
Picox	ystrobin:				
	oution among environ- Il compartments	:	Koc: 898 Remarks: Under potential of mot	r actual use conditions the product has a low ility in soil.	
proth	ioconazole (ISO):				
	oution among environ- Il compartments	:	Koc: 1765 Remarks: Poter and 2000).	ntial for mobility in soil is low (Koc between 50	
Propa	nediol:				
	oution among environ- I compartments	npartments Method: Estimated. Remarks: Given its very low F from natural bodies of water of an important fate process.		n its very low Henry's constant, volatilization dies of water or moist soil is not expected to b	
Balan	ce:				
	oution among environ- Il compartments	:	Remarks: No re	levant data found.	
Other	adverse effects				
Comp	oonents:				
Picox	vstrobin:				
Result	Picoxystrobin: Results of PBT and vPvB assessment		lating and toxic	is not considered to be persistent, bioaccume (PBT). This substance is not considered to be and very bioaccumulating (vPvB).	
proth	ioconazole (ISO):				
	Results of PBT and vPvB assessment		lating and toxic	is not considered to be persistent, bioaccumu (PBT). This substance is not considered to be and very bioaccumulating (vPvB).	
Ozone	e-Depletion Potential	:		substance is not on the Montreal Protocol list nat deplete the ozone layer.	
Propa	mediol:				
Result	ts of PBT and vPvB sment	:	: This substance is not considered to be persistent, bioaccur lating and toxic (PBT). This substance is not considered to very persistent and very bioaccumulating (vPvB).		
Ozone	e-Depletion Potential	:	: Remarks: This substance is not on the Montreal Protocol lis of substances that deplete the ozone layer.		
Balan	ce:			-	
	ts of PBT and vPvB	:	This substance	has not been assessed for persistence, bioa	



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Ozor	e-Depletion Potential		substance is not on the Montreal Protocol list hat deplete the ozone layer.

### SECTION 13. DISPOSAL CONSIDERATIONS

### **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 other- wise contaminated. It is the responsibility of the waste gener- ator to determine the toxicity and physical properties of the material generated to determine the proper waste identifica- tion and disposal methods in compliance with applicable regu- lations. If the material as supplied becomes a waste, follow all appli- cable regional, national and local laws.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG	
UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
Class	(Picoxystrobin, Prothioconazole) : 9
Packing group	: 9 : III
Labels	: 9
IATA-DGR	
UN/ID No.	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Picoxystrobin, Prothioconazole)
Class	: 9
Packing group	: !!!
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 964
Packing instruction (passen- ger aircraft)	: 964
IMDG-Code	
UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
	(Picoxystrobin, Prothioconazole)
Class	: 9
Packing group	: 111
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes
Remarks	: Stowage category A





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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied. National Regulations			
-	umber er shipping name	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,

	(Picoxystrobin, Prothioconazole)	
Class	: 9	
Packing group	: 111	
Labels	: 9	
ERG Code	: 171	
Marine pollutant	: yes(Picoxystrobin, Prothioconazole)	

### 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.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

#### 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

#### The components of this product are reported in the following inventories:

DSL

: This product contains components that are not listed on the Canadian DSL nor NDSL.

Pest Control Products Act (PCPA) Registration Number : 34672

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:

PCPA Label Hazard Communications: Read the label and booklet before using.

This product is toxic to: Earthworms Certain beneficial insects Aquatic organisms



# Viatude<sup>™</sup> Fungicide

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### **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 other abbreviations

CA ON OEL

CA ON OEL / TWA

 Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
 Time-Weighted Average Limit (TWA)

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

Revision Date	:	02/24/2023
Date format	:	mm/dd/yyyy

Product code: GF-4630

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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