according to the Hazardous Products Regulations



DELEGATE™ Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/15/2025	800080000105	Date of first issue: 02/15/2025

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

SECTION 1. IDENTIFICATION Product name Other means of identification	-	DELEGATE™ Insecticide No data available
Manufacturer or supplier's de COMPANY IDENTIFICATION Manufacturer/importer		IS CORTEVA AGRISCIENCE CANADA COMPANY
Manufacturer/importer	•	SUITE 240, 115 QUARRY PARK RD. SE CALGARY AB, T2C 5G9 CANADA
Customer Information Number	:	800-667-3852
E-mail address	:	solutions@corteva.com
Emergency telephone number	:	Corteva Canada Solutions: 1-800-667-3852
Recommended use of the che Recommended use		ical and restrictions on use End use insecticide product

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture Components Chemical name Common CAS-No. Concentration (% w/w) Name/Synonym Spinetoram J & L 935545-74-7 Spinetoram J & (CAS# 187166-40-1 & L (CAS# 25 187166-15-0) 187166-40-1 & 187166-15-0) Kaolin Kaolin 1332-58-7 >= 15 - < 40 * Sodium N-methyl-N-Sodium N-me-137-20-2 oleoyltaurine thyl-N-oleoyltau->= 1 - < 5 * rine Titanium dioxide Titanium dioxide 13463-67-7 >= 1 - < 5 * Sodium chloride Sodium chloride 7647-14-5 >= 0.5 - < 1.5 * Quartz Quartz 14808-60-7 >= 0.1 - < 1 * Balance Not Assigned > 20 Balance

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled

Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket

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	In case	of skin contact	:	advice. Take off contamin plenty of water for	ated clothing. Rinse skin immediately with 15-20 minutes. Call a poison control center
		of eye contact	:	20 minutes. Remo minutes, then con ter or doctor for tro Suitable emergen work area.	nd rinse slowly and gently with water for 15- ove contact lenses, if present, after the first 5 tinue rinsing eyes. Call a poison control cen- eatment advice. cy eye wash facility should be available in
		portant symptoms ects, both acute and	:	No emergency me None known.	edical treatment necessary.
	Protectio	on of first-aiders	:	personal protectiv No specific antido Treatment of expo symptoms and the Have the Safety D	te. bsure should be directed at the control of e clinical condition of the patient. Data Sheet, and if available, the product con- n you when calling a poison control center or
		FIREFIGHTING MEAS extinguishing media	SUR :	Water spray	
				Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuital dia	ble extinguishing me-	:	None known.	
	Specific fighting	hazards during fire-	:		bustion products may be a hazard to health. off from fire fighting to enter drains or water
	Hazardo ucts	ous combustion prod-	:	tion to combustion be toxic and/or irri	ucts may include and are not limited to:
	Specific ods	extinguishing meth-	:	so. Evacuate area. Use extinguishing cumstances and t	ged containers from fire area if it is safe to do measures that are appropriate to local cir- he surrounding environment. o cool unopened containers.
	Further	information	:	must not be discharged Fire residues and	ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.

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	Special for firefi	protective equipment ghters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SEC	TION 6	ACCIDENTAL RELEA	SF	MEASURES	
020		al precautions, protec-		Avoid dust formati	ion.
		ipment and emer-		Use personal prot	ective equipment.
	gency p	rocedures		Use appropriate s	afety equipment. For additional information, Exposure Controls and Personal Protection.
	Environ	mental precautions	:	respective authori	
					e environment must be avoided.
					akage or spillage if safe to do so.
					e of contaminated wash water. should be advised if significant spillages can-
				not be contained.	should be advised it significant spillages can-
					ring into soil, ditches, sewers, underwater.
					cological Information.
	Mathad	a and motorials for		l agal ar national r	aculations may apply to releases and dis
		s and materials for ment and cleaning up	•		egulations may apply to releases and dis- rial, as well as those materials and items
	oomann	none and oleaning up		employed in.	
				Pick up and arran	ge disposal without creating dust.
					al should be stored in a vented container.
					event the ingress of water as further reaction
				pressurization of t	als can take place which could lead to over-
					closed containers for disposal.
				Sweep up or vacu	um up spillage and collect in suitable con-
				tainer for disposal	
				mation.	visposal Considerations, for additional infor-
_				mation	
SEC	TION 7.	HANDLING AND STO	RA	GE	
	Advice	on safe handling	:	Do not breathe va	•
					nce with good industrial hygiene and safety
				practice. Smoking eating a	nd drinking should be prohibited in the appli-
				cation area.	
				Do not swallow.	
				Avoid contact with	
					or repeated contact with skin.
				environment.	ent spills, waste and minimize release to the
					afety equipment. For additional information,
				refer to Section 8,	Exposure Controls and Personal Protection.
	Conditio	ons for safe storage	:	Store in a closed of	
					are opened must be carefully resealed and
				kept upright to pre	abelled containers.
					ce with the particular national regulations.
	Materia	ls to avoid	:	Strong oxidizing a	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Components with workplace control parameters



according to the Hazardous Products Regulations

Components	CAS-No.	Value type	Control parame-	Basis
Compendito	0/10/10.	(Form of ex-	ters / Permissible	Baolo
		posure)	concentration	
Kaolin	1332-58-7	TWA (Res- pirable)	2 mg/m3	CA AB OE
		TWA (Res- pirable)	2 mg/m3	CA BC OE
		TWAEV (res- pirable dust)	2 mg/m3	CA QC OE
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH
Titanium dioxide	13463-67-7	TWA	10 mg/m3	CA AB OEI
		TWA (Total dust)	10 mg/m3	CA BC OEI
		TWA (respir- able dust fraction)	3 mg/m3	CA BC OE
		TWAEV (to- tal dust)	10 mg/m3	CA QC OE
Sodium chloride	7647-14-5	TWA	10 mg/m3	Corteva OE
Quartz	14808-60-7	TWA (Res- pirable par- ticulates)	0.025 mg/m3	CA AB OEI
		TWA (Res- pirable frac- tion)	0.1 mg/m3	CA ON OE
		TWA (Res- pirable)	0.025 mg/m3 (Silica)	CA BC OEI
		TWAEV (res- pirable dust)	0.05 mg/m3	CA QC OE
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
Engineering measures :	posure limit re If there are no guidelines, us	equirements or go applicable expose se only with adec	naintain airborne leve nuidelines. osure limit requireme quate ventilation. be necessary for so	ents or
Personal protective equipment Respiratory protection :	tial to exceed If there are no guidelines, us Selection of a depend on the concentration For emergend	the exposure lin p applicable expose an approved r air-purifying or po e specific operat of the material. cy conditions, us	psitive-pressure supp ion and the potentia e an approved posit	uidelines. ents or blied-air will l airborne
Hand protection Remarks :	Use gloves cl		nt to this material wh contact could occur	

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	Skin ar	otection nd body protection PHYSICAL AND CHE	:	trile/butadiene ruk ("PVC" or "vinyl") for a particular ap should also take i such as, but not li handled, physical terity, thermal pro materials, as well by the glove supp Use safety glasse If there is a poten cause eye discon Wear clean, body	es (with side shields). tial for exposure to particles which could nfort, wear chemical goggles. r-covering clothing.
	Appear		:	Granules.	
(Colour		:	White to off-white	9
(Odour		:	Musty	
(Odour ⁻	Threshold	:	No data available	9
I	рН		:	8.7 (22.6 °C) Method: Measure (1% aqueous sus	
I	Melting	point/ range	:	No data available	9
I	Freezin	g point		Not applicable	
I	Boiling	point/boiling range	:	Not applicable	
I	Flash p	oint	:	Not applicable	
I	Evapor	ation rate	:	Not applicable	
I	Flamma	ability (solid, gas)	:	No data available)
		explosion limit / Upper bility limit	:	Not applicable	
		explosion limit / Lower bility limit	:	Not applicable	
·	Vapour	pressure	:	Not applicable	
I	Relative	e vapour density	:	Not applicable	
I	Density		:	Not applicable	
I	Bulk de	nsity	:	0.5 g/cm3 (21.8 ° Method: Tapped	
S	Solubilit <u>y</u> Wat	y(ies) er solubility	:	Disperses in wate	er

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Auto-	ignition temperature	:	No data available)
Viscos Vi	sity scosity, dynamic	:	Not applicable	
Vi	scosity, kinematic	:	Not applicable	
Explo	osive properties	:	No	
Oxidi	zing properties	:	No	
SECTION	10. STABILITY AND RE	АСТ	ΙΛΙΤΛ	
Reac	tivity	:	Not classified as	a reactivity hazard.
	nical stability	:	Stable under nor	
	ibility of hazardous reac-	:		ommended storage conditions.
tions Cond	litions to avoid	:		e specially mentioned. ated temperatures can cause product to de-
Incon	npatible materials	:	Strong acids Strong bases	
Haza produ	rdous decomposition ucts	:	Decomposition pl and the presence	roducts depend upon temperature, air supply of other materials. roducts can include and are not limited to: NOx)
SECTION	11. TOXICOLOGICAL IN	NFOF	RMATION	
	toxicity			
<u>Produ</u> Acute	<u>act:</u> e oral toxicity			
Acute	e inhalation toxicity		Exposure time: 4 Test atmosphere: Method: OECD Te	dust/mist
Acute	e dermal toxicity		Method: OECD Te Symptoms: No de	and female): > 5,000 mg/kg est Guideline 402 eaths occurred at this concentration. tion source: Internal study report
	oonents:			
	etoram J & L (CAS# 187 e oral toxicity		40-1 & 187166-15 LD50 (Rat, female	
Acute	e inhalation toxicity		LC50 (Rat, male a Exposure time: 4 Test atmosphere:	
Acute	e dermal toxicity	:	LD50 (Rat, male a	and female): > 5,000 mg/kg

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Kaoli	n			
	e oral toxicity	: L	.D50 (Rat): > 5	,000 mg/kg
Sodiu	um N-methyl-N-oleoyl	taurine	:	
	e oral toxicity		.D50 (Rat): > 2	,000 mg/kg
Acute	e dermal toxicity	: L	.D50 (Rat): > 2	,000 mg/kg
	ium dioxide: e oral toxicity		.D50 (Rat): > 1	0 000 ma/ka
Acut			.D50 (Ital). > 1	0,000 mg/kg
Acut	e inhalation toxicity	E T S A		4 h
Acute	e dermal toxicity	: L	.D50 (Rabbit):	10,000 mg/kg
Sodiu	um chloride:			
	e oral toxicity	F	.D50 (Rat): > 3 Remarks: Exces Jausea and/or y	ssive exposure may cause:
Acute	e inhalation toxicity	E	C50 (Rat): > 4 xposure time: est atmospher	1 h
Acut	e dermal toxicity	: L	.D50 (Rabbit):	10,000 mg/kg
	corrosion/irritation			
Produ Spor			Rabbit	
Spec			DECD Test Gui	dolino 101
Meth				
Resu Rem			lo skin irritatior nformation sou	rce: Internal study report
	oonents:	07466 A	0 4 9 497466	45.0\.
-	etoram J & L (CAS# 18		0-1 & 18/166- Rabbit	1 3- 0j.
Spec Meth			DECD Test Gui	deline 404
Resu			lo skin irritatior	
Kaoli	n:			
Spec		: F	Rabbit	
Resu		: 1	lo skin irritatior	1
	ium dioxide:		1 1. 1. 1. 1. 1.	
Resu	llt	: 1	lo skin irritatior	1
	um chloride:			
Spec			Rabbit	
Resu	ult	: 1	lo skin irritatior)
Quart				
Resu	ult	: 1	lo skin irritatior	1
			- / / 0	

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Soria	ıs eye damage/eye	irritation	
Produ			
Speci		: Rabbit	
Resul			
		: No eye irritation	
Metho		: OECD Test Guideline 405	
Rema	IFKS	: Information source: Internal study report	
	onents: toram L&L (CAS#	187166-40-1 & 187166-15-0):	
Speci	-	: Rabbit	
Resul		: No eye irritation	
Metho	ba	: OECD Test Guideline 405	
Kaolin		· Dabhit	
Speci		: Rabbit	
Resul	t	: No eye irritation	
	m N-methyl-N-oleo		
Speci		: Rabbit	
Resul	ι	: Eye irritation	
	um dioxide:		
Resul	τ	: No eye irritation	
	m chloride:	5.4.4	
Speci		: Rabbit	
Resul	t	: No eye irritation	
Quartz			
Resul	t	: No eye irritation	
-	ratory or skin sens	tisation	
Produ Test		: Local lymph node assay (LLNA)	
		: Mouse	
Speci			
	ssment	: Does not cause skin sensitisation.	
Metho		: OECD Test Guideline 429	
Rema	Irks	: Information source: Internal study report	
Asses	ssment	: Does not cause respiratory sensitisation.	
	onents:		
		187166-40-1 & 187166-15-0):	
Speci		: Mouse	
Resul	t	: The product is a skin sensitiser, sub-category	' 1E
	m N-methyl-N-oleo		
Speci		: Guinea pig	
Resul	t	: Does not cause skin sensitisation.	
	um dioxide:		
Speci		: Mouse	
	t	: Does not cause skin sensitisation.	
Resul			
	es	: Guinea pig	

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sion	Revision Date: 02/15/2025		S Number: 0080000105	Date of last issue: - Date of first issue: 02/15/2025
Corm	oll mutagonicity			
	cell mutagenicity onents:			
	oram J & L (CAS# 18	7166	-40-1 & 187166	5-15-0):
	cell mutagenicity - As-			toxicity studies were negative., Animal gene
sessm				s were negative.
	n N-methyl-N-oleoylta			
	•	:	In vitro genetio	c toxicity studies were negative.
sessm				
	Im dioxide:		la vitro gonoti	tovicity studios were possible in some cose
sessm	cell mutagenicity - As- nent	•		c toxicity studies were negative in some case other cases., Animal genetic toxicity studies
	n chloride:			
	cell mutagenicity - As-	:	In vitro genetio	c toxicity studies were predominantly negative
sessm Quartz				
	cell mutagenicity - As-	:	In vitro genetic	toxicity studies were negative in some case
sessm		•	and positive in	
Carcin	ogenicity			
Produc				
Carcin	ogenicity - Assess-	:	Animal testing	did not show any carcinogenic effects.
ment				
	onents:			45.0
	oram J & L (CAS# 18			
ment	ogenicity - Assess-	:	Did not cause	cancer in laboratory animals.
Kaolin				
Carcin	nogenicity - Assess-	:	Animal testing	did not show any carcinogenic effects.
ment	ım dioxide:			
	in aloxide: logenicity - Assess-			and tumors have been observed in rats expo
ment	iogenicity - Assess-		to titanium dio are believed to clearance med tions. Workers have not show disease or lun	xide in two lifetime inhalation studies. Effects be due to overloading of the normal respira chanisms caused by the extreme study condi- exposed to titanium dioxide in the workplace of an unusual incidence of chronic respiratory g cancer. Titanium dioxide was not carcino- atory animals in lifetime feeding studies.
Quartz			-	- v
	ogenicity - Assess-	:		ancer in humans., Has caused cancer in labo
ment			tory animals.,	Human carcinogen.
	ductive toxicity			
sessm	ductive toxicity - As- nent	:	Suspected hu	man reproductive toxicant
	onents:			
	oram J & L (CAS# 18			
	ductive toxicity - As-	:		man reproductive toxicant
sessm	nent		Did not cause	birth defects or other effects in the fetus eve

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rsion	Revision Date: 02/15/2025		S Number: 0080000105	Date of last issue: - Date of first issue: 02/15/2025
Reproc sessmo	ductive toxicity - As- ent	:	Screening stud	dies suggest that this material does not affect
Quartz:				
	luctive toxicity - As-	:		terial(s):, Did not cause birth defects or any cts in laboratory animals.
STOT - Produc	single exposure t:			
Assess		:	Evaluation of a an STOT-SE to	available data suggests that this material is no oxicant.
Compo				
Assess	oram J & L (CAS# 18 sment	7166 :		available data suggests that this material is no
Kaolin:				
Assess		:	an STOT-SE t	available data suggests that this material is no oxicant.
	N-methyl-N-oleoylt	aurin		
Assess		:	an STOT-SE t	available data suggests that this material is no oxicant.
Assess	m dioxide:		Evaluation of a	available data suggests that this material is no
A33633	ment	•	an STOT-SE t	
Sodium	n chloride:			
Assess	sment	:	Evaluation of a an STOT-SE to	available data suggests that this material is no oxicant.
Quartz:				
Assess		:	Evaluation of a an STOT-SE to	available data suggests that this material is no oxicant.
<u>Compo</u>				
Quartz:				or mixture is not elegatified as aposific torget
Assess		·		or mixture is not classified as specific target ingle exposure.
Compo	ed dose toxicity nents:			
	oram J & L (CAS# 18	7166	-40-1 & 187166	-15-0):
Remar	ks	:	various tissues	
				oducing these effects were many times highe
Kaolin:			unan any uose	levels expected from exposure due to use.
Remar		:	Repeated exce	essive exposure to crystalline silica may caus
				gressive and disabling disease of the lungs.
Sodium	N-methyl-N-oleoylta	aurin	e:	
Remar		:	Based on avai	lable data, repeated exposures are not antici- e significant adverse effects.
Titaniu	m dioxide:			~
Remar	ks	:	respiratory effe	essive inhalation exposures to dusts may cau ects. ects have been reported on the following or-

Sodium chloride:

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ErC50 (diatom Navicula sp.): 0.564 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

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			Remarks: Informa	ation source: Internal study report	
	Toxicity to soil dwelling or- ganisms		LC50 (Eisenia fetida (earthworms)): > 4,000 mg/kg Exposure time: 14 d Remarks: Information source: Internal study report		
Toxici isms	ty to terrestrial organ-	:	Remarks: Materia basis (LD50 > 200	I is practically non-toxic to birds on an acute 00 mg/kg).	
			mg/kg	s virginianus (Bobwhite quail)): > 2,250 ation source: Internal study report	
			Exposure time: 96	is mellifera (bees)): 0.079 µg/bee 5 h ttion source: Internal study report	
			Exposure time: 96	nellifera (bees)): 0.22 µg/bee 5 h ation source: Internal study report	
	xicology Assessment aquatic toxicity	:	Very toxic to aqua		
	ic aquatic toxicity	:		atic life with long lasting effects.	
	onents:				
	ty to fish	166 :	LC50 (Lepomis m Exposure time: 96 Test Type: flow-th	acrochirus (Bluegill sunfish)): 2.69 mg/l Տ հ	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Test Type: static t		
			LC50 (saltwater n Exposure time: 96 Test Type: flow-th		
			EC50 (Chironomu Exposure time: 48	us riparius (harlequin fly)): 0.0031 mg/l 3 h	
Toxici plants	ty to algae/aquatic	:	mg/l End point: Biomas Exposure time: 72 Test Type: static t	2 h	
			End point: Biomas Exposure time: 72 Test Type: static t	2 h test est Guideline 201 or Equivalent	

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				End point: Growth Exposure time: 7 Test Type: semi-s	d
	Toxicity to fish (Chronic tox- icity)		:	NOEC (Pimephale End point: weight Exposure time: 32 Test Type: flow-th	2 d
				LOEC (Pimephale End point: weight Exposure time: 32 Test Type: flow-th	
	Toxicity to daphnia and other aquatic invertebrates		:	NOEC (Daphnia r Test Type: flow-th	nagna (Water flea)): 0.000062 mg/l irough test
		c toxicity) to microorganisms	:	EC50 (Bacteria): : Exposure time: 3	
	Toxicity ganism	r to soil dwelling or- s	:	LC50 (Eisenia feti Exposure time: 14	ida (earthworms)): > 500 mg/kg 1 d
	Toxicity isms	v to terrestrial organ-	:	oral LD50 (Colinu mg/kg bodyweigh	s virginianus (Bobwhite quail)): > 2250 t.
				dietary LC50 (Col mg/kg diet.	inus virginianus (Bobwhite quail)): > 5620
	Codium			Exposure time: 48	nellifera (bees)): 0.11 micrograms/bee 3 h
·	Toxicity	N-methyl-N-oleoylta to fish	urin :) (zebra fish)): 1.32 mg/l S h
		v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 5.76 mg/l 3 h
	Toxicity plants	v to algae/aquatic	:	EC50 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 197 mg/l 2 h
	aquatic (Chroni	to daphnia and other invertebrates c toxicity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 2 mg/l I d
	Titaniur Toxicity	n dioxide: v to fish	:		I is practically non-toxic to aquatic organ- basis (LC50/EC50/EL50/LL50 >100 mg/L in e species tested).
				NOEC mortality (L Exposure time: 48	₋euciscus idus (Golden orfe)): > 1,000 mg/l 3 h

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			Test Type: static	test
aquat	Toxicity to daphnia and other aquatic invertebrates Sodium chloride: Toxicity to fish		EC50 (Daphnia i Exposure time: 4 Test Type: static	
			Exposure time: 9 Test Type: flow-1	
			Exposure time: 9 Test Type: static	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia) Exposure time: 4 Test Type: static	
Toxici plants	ty to algae/aquatic	:	Exposure time: 1 Test Type: static	th inhibition (cell density reduction) 20 h
	ty to microorganisms	:	IC50 (activated s Method: OECD 2	sludge): > 1,000 mg/l 209 Test
	Quartz: Toxicity to fish		Remarks: Not ex isms.	spected to be acutely toxic to aquatic organ-
	xicology Assessment aquatic toxicity	:		no known ecotoxicological effects.
<u>Comp</u> Spinet	tence and degradabilit onents: oram J & L (CAS# 187 gradability	-	aerobic Inoculum: activa Concentration: 2 Result: Not biode Biodegradation: Exposure time: 2	ted sludge 0 mg/l egradable 0.1 - 9.1 % 28 d Fest Guideline 301B or Equivalent
	m N-methyl-N-oleoylta gradability	urir :	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD Remarks: 10-day	80 % 28 d Fest Guideline 301B or Equivalent 7 Window: Pass 9 biodegradable. Passes OECD test(s) for
Biode	Titanium dioxide: Biodegradability Quartz:			gradation is not applicable.

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sion	Revision Date: 02/15/2025		S Number: 0080000105	Date of last issue: - Date of first issue: 02/15/2025
Biode	gradability	:	Remarks: Biod	egradation is not applicable.
Comp	cumulative potential onents:	74.00	40 4 8 407400	45.05
	coram J & L (CAS# 18 cumulation	:	Species: Onco	rhynchus mykiss (rainbow trout) on factor (BCF): 348
Partiti tanol/v	on coefficient: n-oc- water	:		(20 °C) oncentration potential is moderate (BCF be 3000 or Log Pow between 3 and 5).
Sodiu	m N-methyl-N-oleoylt	aurin	e:	
Partiti tanol/	on coefficient: n-oc- water	:	Pow: 1.36 (20 Remarks: Bioc Pow < 3).	°C) oncentration potential is low (BCF < 100 or
	um dioxide: on coefficient: n-oc- water	:	Remarks: Part ble.	tioning from water to n-octanol is not appli
	m chloride: on coefficient: n-oc- water	:	atively high wa	ioconcentration is expected because of the ter solubility. m water to n-octanol is not applicable.
Quartz Partiti tanol/	on coefficient: n-oc-	:	Remarks: Part ble.	tioning from water to n-octanol is not appli
tanol/	on coefficient: n-oc- water	:	Remarks: No r	elevant data found.
	ty in soil <u>onents:</u>			
Spinet	oram J & L (CAS# 18			
	oution among environ- al compartments	:	2000 and 5000	ntial for mobility in soil is slight (Koc betwe).
Distrik menta	um dioxide: oution among environ- al compartments m chloride:	:	Remarks: No c	lata available.
Distrik	bution among environ- al compartments	:	Remarks: Pote tween 0 and 50	ntial for mobility in soil is very high (Koc be)).
Quartz	:			
menta	oution among environ- al compartments	:	Remarks: No r	elevant data found.
menta	ce: bution among environ- al compartments adverse effects	:	Remarks: No r	elevant data found.

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	Results of PBT and vPvB as- sessment		Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).	
Ozone-	Depletion Potential	:		ostance is not on the Montreal Protocol list t deplete the ozone layer.
Kaolin: Results sessme	s of PBT and vPvB as- ent	:	lating and toxic (P	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
Ozone-	Depletion Potential	:		ostance is not on the Montreal Protocol list t deplete the ozone layer.
Sodium	N-methyl-N-oleoylta	urin	0.	
	s of PBT and vPvB as-		This substance is lating and toxic (P	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
	Depletion Potential	:		ostance is not on the Montreal Protocol list t deplete the ozone layer.
	m dioxide: s of PBT and vPvB as- ent	:	This substance ha cumulation and to	as not been assessed for persistence, bioac- xicity (PBT).
Ozone-	Depletion Potential	:		ostance is not on the Montreal Protocol list t deplete the ozone layer.
	a chloride: s of PBT and vPvB as- ent	:	This substance is lating and toxic (P	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
Ozone-	Depletion Potential	:	Remarks: This sul	ate: 12/17/2010; RT) ostance is not on the Montreal Protocol list t deplete the ozone layer.
Quartz: Results sessme	s of PBT and vPvB as- ent	:	This substance ha cumulation and to	as not been assessed for persistence, bioac- xicity (PBT).
Ozone-	Depletion Potential	:		ostance is not on the Montreal Protocol list t deplete the ozone layer.
Balance Results sessme	s of PBT and vPvB as-	:	This substance ha	is not been assessed for persistence, bioac- xicity (PBT).
Ozone-	Depletion Potential	:		ostance is not on the Montreal Protocol list t 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
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			generator to de the material gen cation and disp regulations. If the material a	aminated. It is the responsibility of the waste termine the toxicity and physical properties of nerated to determine the proper waste identifi- osal methods in compliance with applicable as supplied becomes a waste, follow all applica- tional and local laws.
	14. TRANSPORT INFO	RM/	TION	
	TDG			
	number ber shipping name	:	UN 3077 ENVIRONMEN N.O.S. (Spinetoram)	TALLY HAZARDOUS SUBSTANCE, SOLID,
Clas		:	9	
Pack Labe	king group	:		
	ronmentally hazardous	:	9 yes	
IAT	A-DGR		-	
	D No.	:	UN 3077	
	per shipping name	:	(Spinetoram)	y hazardous substance, solid, n.o.s.
Clas		:	9 III	
Labe	king group als	:	Miscellaneous	
	king instruction (cargo	:	956	
	aft) king instruction (passen- aircraft)	:	956	
•	G-Code			
	number	:	UN 3077	
-	per shipping name	:		TALLY HAZARDOUS SUBSTANCE, SOLID,
Clas	S	:	9	
	king group	:		
Labe	els S Code	÷	9 F-A, S-F	
	ne pollutant	:	yes(Spinetoran	
	arks	÷	Stowage catego	
Not a	sport in bulk according pplicable for product as s onal Regulations			POL 73/78 and the IBC Code
TDG	ì			
	number ber shipping name	:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID,
Clas	s	:	(Spinetoram) 9	
	king group	÷	Ű	
Labe	els	:	9	
	G Code	:	171 	х.
Marı	ne pollutant	:	yes(Spinetoram	1)

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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 : 28778

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. Keep out of reach of children.

Toxic to bees exposed to direct treatment, drift, or residues on flowering crops or weeds. This product is toxic to: Small wild mammals Non-target terrestrial plants May Be Toxic Certain beneficial insects

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

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table
		2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under
		the Occupational Health and Safety Act.

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CA QC	OEL	:		on respecting occupational health and 1, Part 1: Permissible exposure values for ants	
Corteva OEL		: Corteva Occupational Exposure Limit			
ACGIH / TWA		: 8-hour, time-weighted average			
CA AB OEL / TWA		:	: 8-hour Occupational exposure limit		
CA BC OEL / TWA		:	: 8-hour time weighted average		
CA ON	OEL / TWA	:	Time-Weighted Av	verage Limit (TWA)	
CA QC	OEL / TWAEV	:		erage exposure value	
Corteva	a OEL / TWA	:	8-hr TWA		

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM -American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN -United Nations.

DSL - Domestic substances List. WHMIS - Workplace Hazardous Materials Information System.

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Date format	: mm/dd/yyyy

Product code: GF-1640

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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