

DELEGATE[™] 250 WG

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 South Africa and may not meet the regulatory requirements in other countries.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

: DELEGATE™ 250 WG

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

Use of the Sub-	:	Plant Protection Product, Insecticide
stance/Mixture		

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION Manufacturer/importer Corteva Agriscience RSA Proprietary Limited Block A, 2nd Floor, Lakefield Office Park, 272 West Avenue Centurion, Gauteng, 1063 SOUTH AFRICA

Customer Information	:	+27 (0) 12 683 5700
Number		
E-mail address	:	SDS@corteva.com

1.4 Emergency telephone number

24-Hour Local Emergency Contact: +27 82 895 0621 24-Hour Emergency Contact: +32 3 575 55 55

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Reproductive toxicity, Category 2	H361f: Suspected of damaging fertility.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1 Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

™ ® Trademarks of Corteva Agriscience and its affiliated companies.



DELEGATE[™] 250 WG

Version 0.0	Revision D 30.05.2023		SDS Num 80008000		Date of last issue: - Date of first issue: 30.05.2023
Haz	zard pictograms	:			¥2
Sig	nal word	:	Warnin	g	V
Haz	zard statements	:	H361f H410		ted of damaging fertility. xic to aquatic life with long lasting effects.
	oplemental Haza tements	ard :	EUH40 ronmer	-	To avoid risks to human health and the envi- ly with the instructions for use.
Pre	cautionary state	ements :	Prever P201 P273 P280	Obtain Avoid r Wear p	special instructions before use. elease to the environment. rotective gloves/ protective clothing/ eye protec- ction/ hearing protection.
			Respo P308 + attentic P391	· P313 on.	IF exposed or concerned: Get medical advice/
			Dispos P501 disposa		e of contents/ container to an approved waste
	zardous compor netoram J & L ((
Ado	ditional Labelli	ng			
EUI		ontains Spir allergic rea		& L (CAS	6# 187166-40-1 & 187166-15-0). May produce

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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.	Classification	Concentration (% w/w)
---------------	--------------------------------	----------------	--------------------------



DELEGATE[™] 250 WG

Version 0.0	Revision Date: 30.05.2023	SDS Nt 800080	umber: 000105	20.00 0.	last issue: - first issue: 30.05.2023	
			Registration	ח number		
	etoram J & L (CAS# 18 87166-15-0)	37166-40-	935545-74-	7	Skin Sens. 1B; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410	24,96

		Aquatic Chronic 1; H410	
		M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 1.000	
spinosyn D	131929-63-0	Aquatic Acute 1; H400	0,0291
	603-209-00-0	Aquatic Chronic 1; H410	
		M-Factor (Acute	
		aquatic toxicity): 10	
		M-Factor (Chronic aquatic toxicity): 10	
Fatty acid chlorides, C18 unsatd., reaction products with sodium N-	Not Assigned	Eye Irrit. 2; H319	>= 3 - < 10
methyltaurinate	01-2119976349-20, 01-2119976349-20-		
	0003, 01- 2119976349-20-		
	0004, 01-		
	2119976349-20-		
	0005, 01- 2119976349-20-		
	0006, 01-		
	2119976349-20-		
	0007		
Substances with a workplace exposur			
Kaolin	1332-58-7 310-194-1		>= 30 - < 40

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders	:	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
If inhaled	:	Move person to fresh air. If person is not breathing, call an



DELEGATE™ 250 WG

Version 0.0	Revision Date: 30.05.2023	SDS Number: 800080000105	Date of last issue: - Date of first issue: 30.05.2023
		ration; if by n	esponder or ambulance, then give artificial respi- nouth to mouth use rescuer protection (pocket all a poison control center or doctor for treatment
In cas	se of skin contact	plenty of wat	aminated clothing. Rinse skin immediately with er for 15-20 minutes. Call a poison control center treatment advice.
In cas	se of eye contact	20 minutes. I minutes, then center or doo	en and rinse slowly and gently with water for 15- Remove contact lenses, if present, after the first 5 n continue rinsing eyes. Call a poison control ctor for treatment advice. ergency eye wash facility should be available in
lf swa	allowed	: No emergene	cy medical treatment necessary.
4 0 M 4 1		and affected bath	

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	 No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or dependent.
	doctor, or going for treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from	the	e substance or mixture
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	:	Nitrogen oxides (NOx) Carbon oxides
5.3 Advice for firefighters Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



DELEGATE[™] 250 WG

Version 0.0	Revision Date: 30.05.2023	SDS Number: 800080000105	Date of last issue: - Date of first issue: 30.05.2023
Spec ods	cific extinguishing meth-	: Remove undar so. Evacuate area	naged containers from fire area if it is safe to do
Furt	ner information	cumstances an Use water spra : Collect contam must not be dis Fire residues a	ing measures that are appropriate to local cir- ad the surrounding environment. by to cool unopened containers. inated fire extinguishing water separately. This scharged into drains. nd contaminated fire extinguishing water must in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

····, [·····, [·····, [·····,		
Personal precautions	:	Avoid dust formation. Use personal protective equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
6.2 Environmental precautions		
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Prevent from entering into soil, ditches, sewers,underwater. See Section 12, Ecological Information.

6.3 Methods and material for containment and cleaning up

		•
Methods for cleaning up	:	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in. Pick up and arrange disposal without creating dust. Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over- pressurization of the container. Keep in suitable, closed containers for disposal. Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. See Section 13, Disposal Considerations, for additional infor- mation.



DELEGATE[™] 250 WG

Version 0.0	Revision Date: 30.05.2023	SDS Number: 80008000010	
6.4 Refer	ence to other sections		
SECTIO	N 7: Handling and st	orage	
7.1 Preca	utions for safe handlir	ıg	
Advi	ce on safe handling	Handle in practice. Smoking, plication a Do not sw Avoid con Avoid prol Take care environme Use appro	allow. act with eyes. onged or repeated contact with skin. to prevent spills, waste and minimize release to the
7.2 Cond	itions for safe storage,	including any	incompatibilities
	uirements for storage s and containers	must be c age. Keep	closed container. Containers which are opened arefully resealed and kept upright to prevent leak- in properly labelled containers. Store in accordance articular national regulations.
Advi	ce on common storage	: Strong ox	dizing agents
-	i fic end use(s) sific use(s)	: Plant prote 1107/2009	ection products subject to Regulation (EC) No).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Kaolin	1332-58-7	TWA (Respirable dust)	0,1 mg/m3	2004/37/EC
Titanium dioxide	13463-67-7	OEL-RL	10 mg/m3	ZA OEL
			Exposure Limits - Restricted otes carcinogenicity, which is	
	categorisation	, including category	1A, 1B	
		TWA	2,4 mg/m3	Dow IHG

8.2 Exposure controls

Engineering measures

Use engineering controls to maintain airborne level below exposure limit requirements or guide-lines.



Version 0.0	Revision Date: 30.05.2023	SDS Number: 800080000105	Date of last issue: - Date of first issue: 30.05.2023
lation		xposure limit requireme ay be necessary for so	ents or guidelines, use only with adequate venti- me operations.
Perso	onal protective equip	oment	
Eye/f	ace protection	: Use safety glas Safety glasses EN 166 or equi If there is a pot cause eye disc	ses (with side shields). (with side shields) should be consistent with valent. ential for exposure to particles which could omfort, wear chemical goggles. les should be consistent with EN 166 or
Skin a	emarks and body protection ratory protection	longed or frequ chemical resista Protective glove Examples of pro- prene. Nitrile/but chloride ("PVC" repeated contact is not a good in vides against a is also highly de material that that the glove must, generally be mo- for prolonged a exception to thi nate gloves ma less than 0.35 r brief contact is glove for a part workplace shou place factors su which may be h protection, dext tions to glove m tions/specificati : Wear clean, bo : Respiratory pro- tial to exceed th If there are no a guidelines, use Selection of air-	mically resistant to this material when pro- ently repeated contact could occur. Use ant gloves classified under Standard EN374: as against chemicals and micro-organisms. eferred glove barrier materials include: Neo- utadiene rubber ("nitrile" or "NBR"). Polyvinyl or "vinyl"). When prolonged or frequently ct may occur, a glove is recommended to with the solid material. Glove thickness alone dicator of the level of protection a glove pro- chemical substance as this level of protection ependent on the specific composition of the e glove is fabricated from. The thickness of depending on model and type of material, ore than 0.35 mm to offer sufficient protection nd frequent contact with the substance. As an s general rule it is known that multilayer lami- y offer prolonged protection at thicknesses nm. Other glove materials with a thickness of nm may offer sufficient protection of a specific cular application and duration of use in a ald also take into account all relevant work- the as, but not limited to: Other chemicals handled, physical requirements (cut/puncture erity, thermal protection), potential body reac- naterials, as well as the instruc- ons provided by the glove supplier. dy-covering clothing. tection should be worn when there is a poten- ne exposure limit requirements or guidelines. applicable exposure limit requirements or an approved respirator. -purifying or positive-pressure supplied-air will specific operation and the potential airborne f the material



DELEGATE[™] 250 WG

Version	Revision Date: 30.05.2023	SDS Number:	Date of last issue: -
0.0		800080000105	Date of first issue: 30.05.2023

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	Granules. White to off-white Musty No test data available
рН	:	8,7 (22,6 °C) Method: Measured (1% aqueous suspension)
Melting point/range	:	No test data available
Freezing point		Not applicable
Boiling point/boiling range	:	Not applicable
Flash point	:	Method: closed cup Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Density	:	Not applicable
Bulk density	:	0,5 g/cm3 (21,8 °C) Method: Tapped Volumetric
Solubility(ies) Water solubility Auto-ignition temperature	:	Disperses in water No test data available
Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	No
Oxidizing properties	:	No



DELEGATE[™] 250 WG

Version 0.0	Revision Date: 30.05.2023	SDS Number: 800080000105	Date of last issue: - Date of first issue: 30.05.2023
• • • • • • •	information ata available		
SECTIO	N 10: Stability and	reactivity	
10.1 Read Not c	c tivity lassified as a reactivit	y hazard.	
10.2 Cher	nical stability		
	ecomposition if stored e under normal condi	and applied as directe tions.	d.
10.3 Poss	bility of hazardous	reactions	
Haza	rdous reactions		ecommended storage conditions. be specially mentioned.
10.4 Cond	ditions to avoid		
Cond	litions to avoid	: None known.	
10.5 Inco	mpatible materials		
Mate	rials to avoid	: Strong acids Strong bases	
		on products	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute	toxicity
-------	----------

Product:	
Acute oral toxicity	LD50 (Rat, female): > 5.000 mg/kg Method: OECD Test Guideline 425 Symptoms: No deaths occurred at this concentration.
Acute inhalation toxicity	LC50 (Rat, male and female): > 5,06 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	LD50 (Rat, male and female): > 5.000 mg/kg Method: OECD Test Guideline 402 Symptoms: No deaths occurred at this concentration.

Components:

Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):



sion	Revision Date: 30.05.2023	SDS Number:Date of last issue: -800080000105Date of first issue: 30.05.2023	
Acuto	oral toxicity	: LD50 (Rat, female): > 5.000 mg/kg	
Acule		. LD30 (Nat, lemale). > 5.000 mg/kg	
Acute	inhalation toxicity	: LC50 (Rat, male and female): > 5,50 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
Acute	dermal toxicity	: LD50 (Rat, male and female): > 5.000 mg/kg	
Fatty	acid chlorides, C18	unsatd., reaction products with sodium N-methyltaurinate:	
Acute	oral toxicity	 LD50: > 4.000 mg/kg Method: OECD Test Guideline 401 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute oral icity 	
Acute	dermal toxicity	 LD50: > 2.000 mg/kg Method: OECD Test Guideline 402 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute dern toxicity 	
Kaoli	n:		
Acute	oral toxicity	: LD50 (Rat): > 5.000 mg/kg	
Skin o	corrosion/irritation		
Produ	uct:		
Speci		: Rabbit	
Metho		: OECD Test Guideline 404	
Resul		: No skin irritation	
Comp	oonents:		
Spine	toram J & L (CAS#	187166-40-1 & 187166-15-0):	
Speci	es	: Rabbit	
Metho		: OECD Test Guideline 404	
Resul	t	: No skin irritation	
Kaoli	n:		
Speci	es	: Rabbit	
Resul	t	: No skin irritation	
Serio	us eye damage/eye	rritation	
<u>Produ</u>	<u>uct:</u>		
	es	: Rabbit	
Speci		: OECD Test Guideline 405	
Specie Metho	bd	: OECD Test Guideline 405	



rsion	Revision Date: 30.05.2023	SDS Number: 800080000105	Date of last issue: - Date of first issue: 30.05.2023
Com	oonents:		
		187166-40-1 & 18716	6-15-0):
Speci	-	: Rabbit	
Metho		: OECD Test G	udeline 405
Resul	t	: No eye irritatio	n
Fatty	acid chlorides, C18	3 unsatd., reaction pro	oducts with sodium N-methyltaurinate:
Resul		: Mild eye irritati	-
Kaoli	n:		
Speci	es	: Rabbit	
Resul	t	: No eye irritatio	n
Resp	iratory or skin sens	sitisation	
<u>Produ</u>			
Test]		: Local lymph no	ode assay (LLNA)
Speci	es ssment	: Mouse	e skin sensitisation.
Metho		: OECD Test G	
Asses	ssment	: Does not caus	e respiratory sensitisation.
<u>Comp</u>	oonents:		
-	-	187166-40-1 & 18716	6-15-0):
Speci		: Mouse	a chine consisting a chine costa range 10
Asses	ssment	: The product is	a skin sensitiser, sub-category 1B.
-		· · · · ·	oducts with sodium N-methyltaurinate:
Rema	irks	: For skin sensit	
		Did not demon	strate the potential for contact allergy in mice
Rema	irks	: For respiratory	sensitization:
		No relevant da	ta found.
Germ	cell mutagenicity		
Comp	oonents:		
Spine	etoram J & L (CAS#	187166-40-1 & 18716	6-15-0):
Germ sessn	0,	0	toxicity studies were negative., Animal gene were negative.
Fatty	acid chloridos C1	uncated reaction pro	ducts with sodium N-methyltaurinate:
гану	aciu cilionues, cilo	s unsatu., reaction pro	addis with souldin it-methyliadiniate.



rsion	Revision Date: 30.05.2023		DS Number: 0080000105	Date of last issue: - Date of first issue: 30.05.2023
Carci	nogenicity			
<u>Produ</u> Carcir ment	uct: nogenicity - Assess-	:	Animal testing	did not show any carcinogenic effects.
<u>Comp</u>	oonents:			
-	toram J & L (CAS# 1			-
Carcir ment	nogenicity - Assess-	:	Did not cause of	ancer in laboratory animals.
Kaolin Carcir ment	n: nogenicity - Assess-	:	Animal testing	did not show any carcinogenic effects.
Repro	oductive toxicity			
<u>Produ</u> Repro	ductive toxicity - As-	:	Suspected hun	nan reproductive toxicant
Comp	oonents:			
Spine	toram J & L (CAS# 1	8716	6-40-1 & 187166	-15-0):
Repro sessm	ductive toxicity - As- nent	:	Did not cause l	nan reproductive toxicant birth defects or other effects in the fetus even sused toxic effects in the mother.
Fattv	acid chlorides. C18 ι	unsat	d reaction pro	ducts with sodium N-methyltaurinate:
-	ductive toxicity - As-		· -	es, did not interfere with reproduction.
STOT	- single exposure			
<u>Produ</u>	<u>uct:</u>			
Asses	sment	:	Evaluation of a an STOT-SE to	vailable data suggests that this material is not xicant.
<u>Comp</u>	oonents:			
Spine	etoram J & L (CAS# 1	8716	6-40-1 & 187166	-15-0):
Asses	sment	:	Evaluation of a an STOT-SE to	vailable data suggests that this material is not xicant.
Fattv	acid chlorides. C18 ι	unsat	d., reaction pro	ducts with sodium N-methyltaurinate:
-	sment	:	•	are inadequate to determine single exposure
Kaoli	n:			
Asses	sment	:	Evaluation of a an STOT-SE to	vailable data suggests that this material is not xicant.



DELEGATE™ 250 WG

Version Revision Date: 0.0 30.05.2023		SDS Numb 800080000						
Repe	ated dose toxicity							
Com	oonents:							
Spine	etoram J & L (CAS# ⁻	187166-40-1 &	187166-15-0):					
Remarks:In animals, has been shown to cause vacuolization of cell various tissues. Dose levels producing these effects were many times hig than any dose levels expected from exposure due to use.								
Fatty Rema			tion products with sodium N-methyltaurinate: want data found.					
Kaoli	n:							
Rema	arks		ted excessive exposure to crystalline silica may cause s, a progressive and disabling disease of the lungs.					
Aspir	ation toxicity							
<u>Prod</u> Base		es, not likely to	be an aspiration hazard.					
Com	<u>ponents:</u>							
-	etoram J & L (CAS# ⁴ d on physical propertie		be an aspiration hazard.					
-			tion products with sodium N-methyltaurinate: be an aspiration hazard.					
Kaoli	n:							
Base	d on physical propertie	es, not likely to	be an aspiration hazard.					
ECTION	12: Ecological inf	ormation						
2.1 Toxic	city							
Prod	uct:							
Toxic	ity to fish	Exposu	Lepomis macrochirus (Bluegill sunfish)): 12,52 mg/l ıre time: 96 h					
		Test Ty	/pe: semi-static test					
	ity to daphnia and oth ic invertebrates	er : EC50 (l Exposu	/pe: semi-static test Daphnia magna (Water flea)): > 23,52 mg/l ıre time: 48 h /pe: semi-static test					
aquat	ic invertebrates ity to algae/aquatic	er : EC50 (l Exposu Test Ty : Remark	Daphnia magna (Water flea)): > 23,52 mg/l ıre time: 48 h					



Vers 0.0	sion	Revision Date: 30.05.2023		0S Number: 0080000105	Date of last issue: - Date of first issue: 30.05.2023
				ErC50 (diatom Na Exposure time: 72	avicula sp.): 0,564 mg/l 2 h
	Toxicity ganism	r to soil dwelling or- s	:	LC50: > 4.000 mg Exposure time: 14 Species: Eisenia t	
	Toxicity isms	to terrestrial organ-	:	Remarks: Materia basis (LD50 > 200	l is practically non-toxic to birds on an acute 00 mg/kg).
				oral LD50: > 2.25 Species: Colinus	0 mg/kg virginianus (Bobwhite quail)
				contact LD50: 0,0 Exposure time: 96 Species: Apis me	3 h
				oral LD50: 0,22 µ Exposure time: 96 Species: Apis me	δ h
	Ecotox	icology Assessment			
	Acute a	quatic toxicity	:	Very toxic to aqua	atic life.
	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
	Compo	onents:			
	Spinete	oram J & L (CAS# 187	716	6-40-1 & 187166-1	5-0):
	Toxicity	r to fish	:	Exposure time: 96 Test Type: flow-th	
		to daphnia and other invertebrates	:	Exposure time: 48	
				Test Type: static t Method: OECD Te	est est Guideline 202 or Equivalent
				LC50 (saltwater n Exposure time: 96 Test Type: flow-th	
	Toxicity plants	to algae/aquatic	:	mg/l End point: Biomas Exposure time: 72 Test Type: static t	2 h
				ErC50 (diatom Na End point: Biomas	avicula sp.): 0,127 mg/l ss
				14 / 21	



DELEGATE™ 250 WG

Version 0.0	Revision Date: 30.05.2023		0S Number: 0080000105	Date of last issue: - Date of first issue: 30.05.2023
			Exposure time: 72 Test Type: static t Method: OECD T	
			ErC50 (Lemna gil End point: Growth Exposure time: 7 Test Type: semi-s	n rate inhibition d
M-Fa icity)	ctor (Acute aquatic tox-	:	100	
Toxic	ity to microorganisms	:	EC50 (Bacteria): Exposure time: 3	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0,182 mg/ End point: weight Exposure time: 32 Species: Pimepha Test Type: flow-th	2 d ales promelas (fathead minnow)
			LOEC: 0,392 mg/ End point: weight Exposure time: 32 Species: Pimepha Test Type: flow-th	2 d ales promelas (fathead minnow)
			End point: weight Exposure time: 32	2 d ales promelas (fathead minnow)
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC: 0,000062 Species: Daphnia Test Type: flow-th	magna (Water flea)
	ctor (Chronic aquatic	:	1.000	
toxicil Toxic ganis	ity to soil dwelling or-	:	LC50: > 500 mg/k Exposure time: 14	
Toxic isms	ity to terrestrial organ-	:) mg/kg bodyweight. virginianus (Bobwhite quail)
			dietary LC50: > 5 Species: Colinus	620 mg/kg diet. virginianus (Bobwhite quail)
			oral LD50: 0,11 m Exposure time: 48 Species: Apis me	3 h
-	_			

spinosyn D:



DELEGATE[™] 250 WG

Version 0.0	Revision Date: 30.05.2023		DS Number: 00080000105	Date of last issue: - Date of first issue: 30.05.2023			
M-F icity	actor (Acute aquatic tox-)	:	10				
M-F toxic	actor (Chronic aquatic city)	:	10				
	toxicology Assessment te aquatic toxicity	:	Very toxic to aq	uatic life.			
Chro	onic aquatic toxicity	:	Very toxic to aq	uatic life with long lasting effects.			
12.2 Per	sistence and degradabil	ity					
Con	nponents:						
Spii	netoram J & L (CAS# 187	716	6-40-1 & 187166	-15-0):			
Bioc	legradability	:	Test Type: aero Inoculum: activa Concentration: Biodegradation Exposure time: Method: OECD Remarks: 10-da	ated sludge 20 mg/l ∶ 0,1 - 9,1 % 28 d Test Guideline 301B or Equivalent			
			Remarks: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.				
Fatt	v acid chlorides. C18 un	Isat	d., reaction pro	ducts with sodium N-methyltaurinate:			
	Biodegradability		Result: Readily biodegradable. Remarks: Material is readily biodegradable. Passes Ol test(s) for ready biodegradability.				
			Method: OECD	Test Guideline 301D			
12.3 Bio	accumulative potential						
<u>Con</u>	nponents:						
Spii	netoram J & L (CAS# 187	716	6-40-1 & 187166	-15-0):			
Bioa	accumulation	:	Exposure time:	hynchus mykiss (rainbow trout) 28 d n factor (BCF): 348			
	ition coefficient: n- nol/water	:		20 °C) oncentration potential is moderate (BCF be- 3000 or Log Pow between 3 and 5).			

Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:

Partition coefficient: n-	:	Remarks: No relevant data found.
octanol/water		



DELEGATE™ 250 WG

Ver 0.0	sion	Revision Date: 30.05.2023		DS Number: 00080000105	Date of last issue: - Date of first issue: 30.05.2023					
12.4	4 Mobili	ty in soil								
	<u>Comp</u>	onents:								
	Distrib	oram J & L (CAS# 18 ution among environ- compartments	716 :		5-0): ial for mobility in soil is slight (Koc between					
	Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:									
		ution among environ- compartments	:	Remarks: No rele	evant data found.					
12.5	5 Result	ts of PBT and vPvB a	sse	ssment						
	Produ	<u>ct:</u>								
	Assess	sment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of					
	Comp	onents:								
	-	oram J & L (CAS# 18	716		-					
	Assess	sment	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT) This substance is not considered to be nd very bioaccumulating (vPvB).					
	Fatty a	acid chlorides, C18 ur	nsat	td., reaction produ	ucts with sodium N-methyltaurinate:					
	Assess		:	· -	as not been assessed for persistence, bioac-					
	Kaolin	:								
	Assess	sment	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT) This substance is not considered to be nd very bioaccumulating (vPvB).					
12.6	6 Other	adverse effects								
	<u>Produ</u>	<u>ct:</u>								
	Endoci tial	rine disrupting poten-	:	ered to have ende REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.					
	Comp	onents:								
	-	oram J & L (CAS# 18			-					
	Ozone	-Depletion Potential	:		Ibstance is not on the Montreal Protocol list at deplete the ozone layer.					



DELEGATE[™] 250 WG

Version 0.0	Revision Date: 30.05.2023	SDS Number: 800080000105	Date of last issue: - Date of first issue: 30.05.2023
Fatty	acid chlorides, C18 u	nsatd., reaction pr	oducts with sodium N-methyltaurinate:
Ozon	e-Depletion Potential		s substance is not on the Montreal Protocol list that deplete the ozone layer.
Kaoli	n:		
Ozon	e-Depletion Potential		s substance is not on the Montreal Protocol list that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

:	If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or 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

14.1 UN number		
UNRTDG	:	UN 3077
IMDG	:	UN 3077
ΙΑΤΑ	:	UN 3077
14.2 UN proper shipping name		
UNRTDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Spinetoram)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Spinetoram)
ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s. (Spinetoram)
14.3 Transport hazard class(es)		
UNRTDG	:	9
IMDG	:	9



DELEGATE[™] 250 WG

Version 0.0	Revision Date: 30.05.2023		S Number: 0080000105	Date of last issue: - Date of first issue: 30.05.2023
ΙΑΤΑ		:	9	
14.4 Packi	ng group			
UNRT Packir Labels	ng group	:	III 9	
IMDG Packir Labels EmS (Rema	ng group s Code	:	III 9 F-A, S-F Stowage categor	у А
Packir aircraf Packir	(Cargo) ng instruction (cargo ft) ng instruction (LQ) ng group		956 Y956 III	
Labels		:	Miscellaneous	
Packir ger air Packir	(Passenger) ng instruction (passen- rcraft) ng instruction (LQ) ng group	:	956 Y956 III	
Labels		:	Miscellaneous	
14.5 Envir	onmental hazards			

IMDG

Marine pollutant : yes(Spinetoram)

14.6 Special precautions for user

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

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

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the

ENVIRONMENTAL HAZARDS

E1



DELEGATE[™] 250 WG

Version	Revision Date:
0.0	30.05.2023

SDS Number: 800080000105 Date of last issue: -Date of first issue: 30.05.2023

control of major-accident hazards involving dangerous substances.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.

SECTION 16: Other information

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Classification was done in accordance with UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Purple Book and complies with the Regulations for Hazardous Chemical Agents, 2021.

Full text of H-Statements

H317 H319 H361f H400 H410		May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.			
Full text of other abbreviations					
Aquatic Acute Aquatic Chronic Eye Irrit. Repr. Skin Sens. 2004/37/EC		Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Eye irritation Reproductive toxicity Skin sensitisation Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work			
Dow IHG ZA OEL 2004/37/EC / TWA Dow IHG / TWA ZA OEL / OEL-RL	: : : : : : : : : : : : : : : : : : : :	Dow Industrial Hygiene Guideline South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits Long term exposure limit Time weighted average Occupational Exposure Limit Restricted limit - 8- hour expo- sure or equivalent (12 hour shifts)			

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 - Emergen-



DELEGATE[™] 250 WG

Version	Revision Date:	SDS Number:	Date of last issue: -
0.0	30.05.2023	800080000105	Date of first issue: 30.05.2023

cy 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

Further information

Classification of the m	nixture:	Classification procedure:
Repr. 2	H361f	Based on product data or assessment
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Based on product data or assessment

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.

ZA / 6N