according to the Hazardous Products Regulations



Fontelis

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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	:	Fontelis
Other means of identification	:	No data available
Manufacturer or supplier's de COMPANY IDENTIFICATION	etai	Is
Manufacturer/importer	:	CORTEVA AGRISCIENCE CANADA COMPANY 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	emi	ical and restrictions on use
Recommended use	:	Fungicide
Restrictions on use	:	Do not use product for anything outside of the above specified uses.

SECTION 2. HAZARDS IDENTIFICATION Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixtur	е	
Components			
Chemical name	Common	CAS-No.	Concentration (% w/w)
	Name/Synonym		
Penthiopyrad	Penthiopyrad	183675-82-3	20.41
White mineral oil (pe-	White mineral	8042-47-5	>= 30 - < 60 *
troleum)	oil (petroleum)		>= 30 - < 60
Propanediol	Propanediol	57-55-6	>= 3 - < 7 *
Ammonium Salt of Pol-	Ammonium Salt	119432-41-6	
yarylphenyl Ether Sul-	of Poly-		>= 3 - < 7 *
phate	arylphenyl Ether		>= 3 - < 7
-	Sulphate		
Alkylnaphthalenesul-	Alkylnaphtha-	68425-94-5	
fonic acid, polymer with	lenesulfonic		
formaldehyde, sodium	acid, polymer		>= 0.5 - < 1.5 *
salt	with formalde-		>= 0.5 - < 1.5
	hyde, sodium		
	salt		
Balance	Balance	Not Assigned	> 1

^{*} Actual concentration or concentration range is withheld as a trade secret

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		FIRST AID MEASURE	ES :		container or label with you when calling a
				For medical emer	nter or doctor, or going for treatment. gencies involving this product, call toll free 1- ee Label for Additional Precautions and Di-
	lf inhal	ed	:	Move to fresh air. Artificial respiratio	n and/or oxygen may be necessary. rol center or doctor for treatment advice.
	In case	of skin contact	:	Take off all contar Rinse skin immed	ninated clothing immediately. iately with plenty of water for 15-20 minutes. trol center or doctor for treatment advice.
	In case	of eye contact	:	Hold eye open an 20 minutes.	d rinse slowly and gently with water for 15-
				rinsing. If eye irritation per	enses, if present and easy to do. Continue rsists, consult a specialist.
	If swall	owed	:	Have person sip a DO NOT induce v cian or poison cor	trol center or doctor for treatment advice. a glass of water if able to swallow. omiting unless directed to do so by a physi- ntrol center. ng by mouth to an unconscious person.
		nportant symptoms ects, both acute and d	:	No information av	
		o physician	:	Treat symptomatic	cally.
		FIREFIGHTING MEAS e extinguishing media		ES Water spray Alcohol-resistant f	oam
	Unsuita dia	able extinguishing me-	:	None known.	
	Specifi fighting	c hazards during fire- I	:		bustion products may be a hazard to health. off from fire fighting to enter drains or water
	Hazaro ucts	lous combustion prod-	:		
	Specifi ods	c 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.
	Furthei	r information	:	must not be disch 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 firef	protective equipment ighters	:	essary.	ed breathing apparatus for firefighting if nec-
SEC	Person tive equ	ACCIDENTAL RELEA al precautions, protec- uipment and emer- procedures		MEASURES Use appropriate s	safety equipment. For additional information, , Exposure Controls and Personal Protection.
	Enviror	nmental precautions	:	respective author Discharge into the Prevent further le Prevent spreadin barriers). Retain and dispos Local authorities not be contained. Prevent from ente	e environment must be avoided. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages can-
		ls and materials for ment and cleaning up	:	ant. Local or national posal of this mate employed in. For large spills, p ment to keep mat be pumped, Recovered mater The vent must pre- with spilled mater pressurization of Keep in suitable, Wipe up with abs Soak up with iner acid binder, univer-	ng materials from spill with suitable absorb- regulations may apply to releases and dis- erial, as well as those materials and items rovide dyking or other appropriate contain- terial from spreading. If dyked material can ial should be stored in a vented container. event the ingress of water as further reaction rials can take place which could lead to over- the container. closed containers for disposal. orbent material (e.g. cloth, fleece). t absorbent material (e.g. sand, silica gel, ersal binder, sawdust). Disposal Considerations, for additional infor-
SEC	TION 7.	HANDLING AND STO	RA	GE	
		on safe handling	:	Do not breathe va Handle in accord practice. Smoking, eating a cation area. Take care to prev environment. Use appropriate s	apours/dust. ance with good industrial hygiene and safety and drinking should be prohibited in the appli- vent spills, waste and minimize release to the safety equipment. For additional information, , Exposure Controls and Personal Protection.
	Condition	ons for safe storage	:	Store in a closed Containers which kept upright to pro- Keep in properly	container. are opened must be carefully resealed and
		lls to avoid jing material	:	Strong oxidizing a Unsuitable mater	agents

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

Components with workplace of					
Components	CAS-No.	Value type (Form of ex-	Control parame- ters / Permissible	Basis	
		posure)	concentration		
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m3	CA AB OEL	
		STEL (Mist)	10 mg/m3	CA AB OEL	
		TWA (Mist)	1 mg/m3	CA BC OEL	
		TWAEV (Mist	5 mg/m3	CA QC OEL	
		- Inhalable			
		dust)			
		TWA	5 mg/m3	ACGIH	
		(Inhalable			
		particulate			
		matter)			
Propanediol	57-55-6	TWA (Va-	50 ppm	CA ON OEL	
		pour and aer-	155 mg/m3		
		osols)			
		TWA (aero-	10 mg/m3	CA ON OEL	
		sol)			
Engineering measures Personal protective equipmen	: Ensure adequate ventilation, especially in confined areas.				
Respiratory protection		protection should	be worn when there	is a poten-	
			nit requirements or g		
			osure limit requireme		
	guidelines, use an approved respirator.				
	Selection of air-purifying or positive-pressure supplied-air will				
			ion and the potential		
		on of the material.			
			e an approved positi	ve-pres-	
		ntained breathing			
Hand protection					
Remarks	: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nittrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the in-				
Eye protection Skin and body protection Protective measures	structions/specifications provided by the glove supplier. Use safety glasses (with side shields). Mixers, loaders, applicators and other handlers must wear: Long sleeved shirt and long pants Shoes plus socks Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use deter- gent and hot water. Keep and wash PPE separately from other laundry. Do not apply this product in a way that will contact workers or				
		ns, either directly o			

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	Hygiene measures		:	 Only protected handlers may be in the area during applition. Use this product in accordance with its label. Wash hands thoroughly with soap and water after hand and before eating, drinking, chewing gum, using tobaccusing the toilet. Remove clothing/PPE immediately if material gets inside Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately aft handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clothing. 			
	ION 9. PHYSICA Appearance	AL AND CHEI	MIC/	AL PROPERTIES liquid			
	Colour		:	off-white			
	Odour		:	slight, ester-like			
	Odour Threshold		:	not determined			
	рН		:	6.66 Concentration: 10) g/L		
	Melting point/ ran	ige	:	Not applicable			
	Freezing point			Not determined			
	Boiling point/boili	ng range	:	No data available	•		
	Flash point		:	> 105 °C			
				Method: closed c	up		
	Evaporation rate		:	No data available	9		
	Flammability (sol	id, gas)	:	Does not sustain	combustion.		
	Self-ignition		:	ca. 385 °C			
	Upper explosion flammability limit		:	No data available			
	Lower explosion flammability limit		:	No data available			
	Vapour pressure		:	No data available			
	Relative vapour o	density	:	No data available			
	Relative density		:	0.9789			
	Density		:	0.98 g/cm3			

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Solu	ubility(ies) Water solubility		dispersible	
Da			•	
tan	rtition coefficient: n-oc- nol/water	•	Not applicable	
Au	to-ignition temperature		385 °C	
Viso	cosity Viscosity, dynamic	:	770.7 mPa,s 30 rpm	
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
	ticle characteristics rticle size	:	Not applicable	
	N 10. STABILITY AND RE	AC		
	activity emical stability	:		a reactivity hazard. n if stored and applied as directed. mal conditions.
Po tior	ssibility of hazardous reac-	:		ommended storage conditions. e specially mentioned.
Co	nditions to avoid	:	None known.	
Inc	compatible materials	:	Strong acids Strong bases	
	zardous decomposition oducts	:	Decomposition p	roducts depend upon temperature, air supply e of other materials.
Αςι	N 11. TOXICOLOGICAL IN ute toxicity iduct:	NFO	RMATION	
	ute oral toxicity	:		
Ac	ute inhalation toxicity	:	Exposure time: 4 Test atmosphere: Method: OECD Te Symptoms: No de Assessment: The tion toxicity	dust/mist
Ac	ute dermal toxicity	:	 LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402 Symptoms: No deaths occurred at this concentration. Remarks: Information source: Internal study report 	
	nponents:			
	nthiopyrad: ute oral toxicity	:	Method: OECD Te	and female): > 2,000 mg/kg est Guideline 423 eaths occurred at this concentration.

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		Assessme icity	nt: The substance or mixture has no acute oral tox-
Acute	inhalation toxicity	Exposure t Test atmos	male and female): > 5.69 mg/l ime: 4 h sphere: dust/mist ECD Test Guideline 403
Acute	dermal toxicity	Method: O Symptoms	male and female): > 2,000 mg/kg ECD Test Guideline 402 : No deaths occurred at this concentration. nt: The substance or mixture has no acute dermal
	mineral oil (petroleur oral toxicity	n):	: > 5,000 mg/kg
Acute	inhalation toxicity	Exposure t Test atmos Method: O	sphere: dust/mist ECD Test Guideline 403 nt: The substance or mixture has no acute inhala-
Acute	dermal toxicity	Symptoms	bit): > 2,000 mg/kg : No deaths occurred at this concentration. nt: The substance or mixture has no acute dermal
	nediol: oral toxicity		: > 20,000 mg/kg
Acute	inhalation toxicity	Exposure t Test atmos Symptoms Assessme tion toxicity	sphere: dust/mist : No deaths occurred at this concentration. nt: The substance or mixture has no acute inhala- v Mist may cause irritation of upper respiratory tract
Acute	dermal toxicity	Symptoms	bit): > 2,000 mg/kg : No deaths occurred at this concentration. nt: The substance or mixture has no acute dermal
	onium Salt of Polyary oral toxicity		Ilphate: : > 2,000 mg/kg
	aphthalenesulfonic a oral toxicity		t h formaldehyde, sodium salt: h: > 4,500 mg/kg
Skin c <u>Produ</u> Speci Metho Resul Rema	es od t	: No skin irri	t Guideline 404 tation n source: Internal study report

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Compo	onents:				
Penthi	opyrad:				
Specie		:	Rabbit		
•	ure time	:	72 h		
Metho			OECD Test Gu	ideline 404	
Result		:	No skin irritation		
Propar	nediol:				
Specie			Rabbit		
Result		:	: No skin irritation		
Alkvina	aphthalenesulfonic	acid.	olvmer with fo	rmaldehyde, sodium salt:	
Specie			Rabbit	······································	
Result		:	No skin irritation	n	
Seriou	s eye damage/eye i	rritatio	n		
Produc			Date:		
Specie		:	Rabbit		
Result		:	No eye irritation		
Metho	-	:	OECD Test Gu		
Remai	rks	:	: Information source: Internal study report		
Compo	onents:				
Penthi	opyrad:				
Specie	es	:	Rabbit		
Result		:	No eye irritatior	า	
Expos	ure time	:	72 h		
Metho		:	OECD Test Gu	ideline 405	
Propar	nediol:				
Specie			Rabbit		
Result		:	No eye irritation	1	
Ammo Result	nium Salt of Polyar	ylpher :	yl Ether Sulpha Corrosive	ate:	
Allerday					
		acid,	Rabbit	rmaldehyde, sodium salt:	
Specie		•			
Result		:	Eye irritation		
-	atory or skin sensit	isatio	ו		
Produc			Movimination T	oot	
Test T			Maximisation T	E SI	
Specie		:	Guinea pig		
Metho		:	OECD Test Gu		
Result		:		e skin sensitisation.	
Remai	rks	:	Information sou	rce: Internal study report	
	onents:				
	opyrad:				
Test T	уре	:	Maximisation T	est	
Specie		:	Guinea pig		
Metho		:	OECD Test Gu	ideline 406	
Result		:		e skin sensitisation.	
White	mineral oil (petroleu	um):			
Specie		<i>.</i>	Guinea pig		
Opeole		•	Sumea pig		

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Result		:	Does not caus	e skin sensitisation.
Propar Specie Result	es	:	human Does not caus	e skin sensitisation.
Compo	ell mutagenicity pnents: ppyrad:			
	cell mutagenicity - As-	:		d not show mutagenic effects, In vitro genetic were negative.
Germ sessm	ent		In vitro genetic	toxicity studies were negative.
Propar Germ sessm	cell mutagenicity - As-	:		toxicity studies were negative., Animal genetic were negative.
Germ sessm Carcine <u>Compo</u>	ent ogenicity onents:			ate: toxicity studies were negative.
	opyrad: ogenicity - Assess-	:	Did not cause	cancer in laboratory animals.
	mineral oil (petroleur ogenicity - Assess-		Did not cause	cancer in laboratory animals.
Propar Carcin ment	ediol: ogenicity - Assess-	:	Did not cause	cancer in laboratory animals.
Compo	luctive toxicity <u>onents:</u> opyrad:			
	ductive toxicity - As-	:		es, did not interfere with reproduction. birth defects or any other fetal effects in labora-
	nineral oil (petroleur ductive toxicity - As- ent	n): :		es, did not interfere with reproduction. birth defects in laboratory animals.
Propar Repro sessm	ductive toxicity - As-	:	mal studies, di	es, did not interfere with reproduction., In ani- d not interfere with fertility. birth defects or any other fetal effects in labora-
STOT - Produc Asses		:	Evaluation of a	vailable data suggests that this material is not
Compo Penthic Asses	opyrad:	:	an STOT-SE t Evaluation of a an STOT-SE t	wailable data suggests that this material is not

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White	mineral oil (petroleum	n):		
	ssment	:	Available data an specific target or	e inadequate to determine single exposure gan toxicity.
	nediol: ssment	:	Evaluation of ava an STOT-SE tox	ailable data suggests that this material is not icant.
	aphthalenesulfonic ac	cid, :	Available data ar	maldehyde, sodium salt: re inadequate to determine single exposure
	- repeated exposure		specific target or	gan toxicity.
Produ Asses	<u>ct:</u> ssment	:	Evaluation of ava	ailable data suggests that this material is not
	ted dose toxicity			
	onents:			
	iopyrad:			
Speci		÷	multiple species	
	ation Route	÷	Oral	laling 107
Metho Rema		:	OECD Test Guid	leline 407 ts have been reported on the following or-
	mineral oil (petroleun	n):	gans: Reduced body w Liver effects Thyroid effects Spleen effects Gallbladder effect Liver enlargemen immune system altered blood che altered hematolo Organ weight ch Decreased splee Increased liver w	reight gain ets nt effects emistry gy anges en weight
Rema		:		ble data, repeated exposures are not antici- dditional significant adverse effects.
Propa	nediol:			
Rema		:		peated excessive exposure to propylene gly- entral nervous system effects.
Ammo	onium Salt of Polyaryl	phei	nyl Ether Sulphat	e:
Rema	irks	:		ble data, repeated exposures are not antici- ignificant adverse effects.
Aspira Produ	ntion toxicity ct:			
	on physical properties,	not	likely to be an asp	iration hazard.
Penth i Based	onents: iopyrad: on physical properties,		likely to be an asp	iration hazard.

White mineral oil (petroleum): Based on physical properties, not likely to be an aspiration hazard.

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Propanediol:

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

Ammonium Salt of Polyarylphenyl Ether Sulphate:

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

AlkyInaphthalenesulfonic acid, polymer with formaldehyde, sodium salt: Based on physical properties, not likely to be an aspiration hazard. SECTION 12. ECOLOGICAL INFORMATION

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.2 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes Remarks: Information source: Internal study report
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.29 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes Remarks: Information source: Internal study report
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes Remarks: Information source: Internal study report
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.075 mg/l Exposure time: 21 d Test Type: Semi-Static-Life-Cycle Method: OECD Test Guideline 211 GLP: yes
Toxicity to terrestrial organ- isms	:	oral LD50 (Apis mellifera (bees)): 517.42 µg/bee Exposure time: 2 d Method: OECD Test Guideline 213 GLP: yes
Components:		contact LD50 (Apis mellifera (bees)): 482.63 µg/bee Exposure time: 2 d Method: OECD Test Guideline 214 GLP: yes
Penthiopyrad: Toxicity to fish	:	LC50 (Cyprinus carpio (Carp)): 0.572 mg/l Exposure time: 96 h Test Type: flow-through Method: OECD Test Guideline 203
		LC50 (Pimephales promelas (fathead minnow)): 0.290 mg/

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			Exposure time: 96 Test Type: semi-s Method: OECD Te	static test
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.386 mg/l ን h
			NOEC (Oncorhyn Exposure time: 96	chus mykiss (rainbow trout)): 0.146 mg/l S h
	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: Static Method: OECD Te	
			Exposure time: 96 Test Type: Static	vsis bahia (mysid shrimp)): > 1.7 mg/l S h Test Guideline OPPTS 850.1035
Toxicity plants	r to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Test Type: Growth Method: OECD Te	h inhibition
			NOEC (Pseudokir mg/l Exposure time: 72 Test Type: Growth Method: OECD Te	h inhibition
			NOEC (Lemna gik Exposure time: 7 Test Type: Static Method: OECD Te	
			EbC50 (Pseudoki mg/l Exposure time: 72 Test Type: Static Method: OECD Te	
			ErC50 (Pseudokir mg/l Exposure time: 96 Test Type: Static Method: OECD Te	
			ErC50 (Lemna git Exposure time: 7 Test Type: Static Method: OECD Te	
M-Facto icity)	or (Acute aquatic tox-	:	1	

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Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.051 mg/l Exposure time: 33 d
		Test Type: Early Life-Stage Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.47 mg/l Exposure time: 21 d Test Type: flow-through test Method: OECD Test Guideline 211
M-Factor (Chronic aquatic	:	1
toxicity) Toxicity to soil dwelling or- ganisms	:	LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207
Toxicity to terrestrial organ- isms	:	LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg Method: US EPA Test Guideline OPPTS 850.2100
		dietary LC50 (Colinus virginianus (Bobwhite quail)): > 1,913 mg/kg Exposure time: 5 d Method: OECD Test Guideline 205
White mineral oil (petroleum): Toxicity to fish		oral LD50 (Apis mellifera (bees)): > 500 µg/b Exposure time: 48 d Method: OECD Test Guideline 213
		contact LD50 (Apis mellifera (bees)): > 500 μg/b Exposure time: 48 d Method: OECD Test Guideline 214
		Remarks: Material is practically non-toxic to aquatic organ- isms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
		LC50 (Lepomis macrochirus (Bluegill sunfish)): > 10,000 mg/l Exposure time: 96 h Test Type: static test
		LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
		LL50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	LL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Ecotoxicology Assessment Acute aquatic toxicity	:	This product has no known ecotoxicological effects.

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Chronic	c aquatic toxicity	:	This product ha	s no known ecotoxicological effects.
Propan Toxicity	ediol: / to fish	:	Exposure time: Test Type: stati	
	y to daphnia and other invertebrates	:	Exposure time: Test Type: station	
Toxicity plants	y to algae/aquatic	:	19,000 mg/l End point: Grow Exposure time:	kirchneriella subcapitata (green algae)): /th rate inhibition 96 h Test Guideline 201
aquatic	y to daphnia and other invertebrates ic toxicity)	:	NOEC (Cerioda End point: num Exposure time: Test Type: sem	7 d
Toxicity	y to microorganisms	:	NOEC (Pseudo Exposure time:	monas putida): > 20,000 mg/l 18 h
Ammon Toxicity	hium Salt of Polyarylp / to fish	her :	Remarks: Mater acute basis (LC most sensitive s	rial is slightly toxic to aquatic organisms on a 50/EC50 between 10 and 100 mg/L in the species tested).
			LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 33 mg/l 96 h
	y to daphnia and other invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 24 mg/l 48 h
Persiste <u>Compo</u> Penthio		y		
	radability	:		legradable Test Guideline 301F or Equivalent
	n ineral oil (petroleum) radability): :	aerobic Concentration: 2 Result: Not biod Biodegradation: Exposure time: Method: OECD Remarks: 10-da	legradable 0 - 24 % 28 d Test Guideline 301B or Equivalent
ThOD		:	3.50 kg/kg	
Photod	egradation	:	Test Type: Half- Sensitiser: OH ı	life (indirect photolysis) adicals

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			Rate constant: Method: Estima	8.28E-12 cm3/s ated.
Propanediol: Biodegradability		:	Biodegradation Exposure time: Method: OECD	
			Biodegradation Exposure time: Method: OECD	
	emical Oxygen De- I (BOD)	:	69.000 % Incubation time	: 5 d
			70.000 % Incubation time	: 10 d
			86.000 % Incubation time	: 20 d
(COD		:	1.53 kg/kg	
ThOE)	:	1.68 kg/kg	
Photo	odegradation	:	Rate constant: Method: Estima	1.28E-11 cm3/s ated.
	onium Salt of Polyarylp gradability	bhei :	Remarks: Base Based on string be considered a sults do not nee gradable under Material is ultim	
<u>Comp</u>	cumulative potential onents: iopyrad:			
	cumulation	:	Bioconcentration Exposure time:	hynchus mykiss (rainbow trout) n factor (BCF): 155 - 186 14 d Test Guideline 305
tanol/	ion coefficient: n-oc- water	:	log Pow: 3.2 (2	4 °C)
	mineral oil (petroleum cumulation): :	Species: Fish Bioconcentratic	on factor (BCF): 1,900
Partit	ion coefficient: n-oc- water	:	log Pow: 5.18 Method: Measu	

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rsion)	Revision Date: 01/24/2025	-	0S Number: 0080006243	Date of last issue: - Date of first issue: 01/24/2025
			Remarks: Biocor Log Pow betwee	ncentration potential is high (BCF > 3000 or n 5 and 7).
	nediol:			
Bioac	cumulation	:	Bioconcentration Method: Estimat	n factor (BCF): 0.09 ed.
Partiti tanol/v	on coefficient: n-oc- water	:	log Pow: -1.07 Method: Measur Remarks: Biocor Pow < 3).	ed ncentration potential is low (BCF < 100 or L
	onium Salt of Polyarylı on coefficient: n-oc-			te: ta available for this product.
tanol/\				
Partiti tanol/v	on coefficient: n-oc- water	; ;		maldehyde, sodium salt: ta available for this product.
tanol/ Mobili	on coefficient: n-oc- water ty in soil	:	Remarks: No rel	evant data found.
Produ				
	oution among environ- al compartments	:	Remarks: Under potential of mobi	actual use conditions the product has a low lity in soil.
	onents:			
	opyrad:			
	oution among environ- al compartments	:	Remarks: Under potential of mobi	actual use conditions the product has a low lity in soil.
	mineral oil (petroleum	ı):		
menta	oution among environ- al compartments	:	Koc: 510 Method: Estimat Remarks: Potent and 2000).	ed. tial for mobility in soil is low (Koc between 5
	nediol:			
	oution among environ- al compartments	:	Method: Estimat Remarks: Given from natural bod an important fate	its very low Henry's constant, volatilization ies of water or moist soil is not expected to
	nium Salt of Polyaryl			
	oution among environ- al compartments	:	Remarks: No rel	evant data found.
Distrib menta Other <u>Comp</u> e	oution among environ- al compartments adverse effects onents:	:	Remarks: No rel	evant data found.
	opyrad: ts of PBT and vPvB as- nent	:		e persistent, bioaccumulative, and toxic (PB every persistent and very bioaccumulative

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ersion .0	Revision Date: 01/24/2025		OS Number: 0080006243	Date of last issue: - Date of first issue: 01/24/2025
White	mineral oil (petroleum):		
	Its of PBT and vPvB as-		lating and toxic	e is not considered to be persistent, bioaccumu c (PBT). This substance is not considered to be and very bioaccumulating (vPvB).
Ozon	e-Depletion Potential	:		substance is not on the Montreal Protocol list that deplete the ozone layer.
Propa	inediol:			
Resu sessr	Its of PBT and vPvB as- nent	:	lating and toxic	e is not considered to be persistent, bioaccumu c (PBT). This substance is not considered to be and very bioaccumulating (vPvB).
Ozon	e-Depletion Potential	:		substance is not on the Montreal Protocol list that deplete the ozone layer.
Ammo	onium Salt of Polyarylp	her	nvl Ether Sulph	ate:
	Its of PBT and vPvB as-		This substance	e has not been assessed for persistence, bioad d toxicity (PBT).
Ozon	e-Depletion Potential	:		substance is not on the Montreal Protocol list that deplete the ozone layer.
Alkvir	naphthalenesulfonic ac	id.	polymer with fo	ormaldehyde, sodium salt:
	Its of PBT and vPvB as-		This substance	e has not been assessed for persistence, bioa d toxicity (PBT).
Ozon	e-Depletion Potential	:		substance is not on the Montreal Protocol list that deplete the ozone layer.
Balan				
Resu sessr	Its of PBT and vPvB as- nent	:		e has not been assessed for persistence, bioa d toxicity (PBT).
Ozon	e-Depletion Potential	:		substance is not on the Montreal Protocol list that deplete the ozone layer.

Waste from residues
 If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identifications. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

SECTION 14. TRANSPORT INFORMATION International Regulations

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	UNRTE UN nun Proper		:	UN 3082 ENVIRONMENTA N.O.S. (Penthiopyrad)	LLY HAZARDOUS SUBSTANCE, LIQUID,
	Class Packing Labels Environ	g group Imentally hazardous	:	9 III 9 yes	
	IATA-D UN/ID I Proper		:	UN 3082 Environmentally h (Penthiopyrad)	azardous substance, liquid, n.o.s.
	aircraft	g instruction (cargo) g instruction (passen-	: : : : : : : : : : : : : : : : : : : :	9 III Miscellaneous 964 964	
	IMDG-0	Code	:	UN 3082 ENVIRONMENTA N.O.S. (Penthiopyrad)	LLY HAZARDOUS SUBSTANCE, LIQUID,
1	Remark Franspo Not appl	ode pollutant ks		9 III 9 F-A, S-F yes(Penthiopyrad) Stowage category nnex II of MARPC	
	TDG UN nun	-	:	UN 3082 ENVIRONMENTA N.O.S. (Penthiopyrad)	LLY HAZARDOUS SUBSTANCE, LIQUID,
	Class Packing Labels ERG Co Marine		:	9 III 9 171 yes(Penthiopyrad))

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.

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DSL

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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:

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

Pest Control Products Act (PCPA) Registration Number : 30331

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.

POTENTIAL SKIN SENSITIZER

Toxic to aquatic organisms.

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.	
CA QC OEL	: Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants	
ACGIH / TWA	: 8-hour, time-weighted average	
CA AB OEL / TWA	: 8-hour Occupational exposure limit	
CA AB OEL / STEL	: 15-minute occupational exposure limit	
CA BC OEL / TWA	: 8-hour time weighted average	
CA ON OEL / TWA	: Time-Weighted Average Limit (TWA)	
CA QC OEL / TWAEV	: Time-weighted average exposure value	

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;

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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.

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Date format	: n	nm/dd/yyyy

Product code: GF-4207

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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