according to the Hazardous Products Regulations



ONDECK

Version	Revision Date:	SDS Number:	Date of last issue: 02/16/2023
2.0	09/23/2024	800080100706	Date of first issue: 02/16/2023

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	:	ONDECK
Other means of identification	:	No data available
Manufacturer or supplier's d	etai	ils
COMPANY IDENTIFICATION		
Manufacturer/importer		CORTEVA AGRISCIENCE CANADA COMPANY
		SUITE 240, 115 QUARRY PARK RD. SE
		CALGARY AB, T2C 5G9
		CANADA
Customer Information		800-667-3852
Number	•	000-007-0032
E-mail address	:	solutions@corteva.com
	•	
Emergency telephone	:	Corteva Canada Solutions: 1-800-667-3852
number		
Recommended use of the ch	em	
Recommended use	:	End use herbicide product
SECTION 2. HAZARDS IDENTIFIC		
	anc	e with the Hazardous Products Regulations
Flammable liquids	:	Category 4
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Oprious and damage		Ontonen A
Serious eye damage	•	Category 1
Skin sensitisation		Category 1
Okin Schönsation	•	Category
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 2
Specific target organ toxicity	:	Category 2
 single exposure (Oral) 		
Oppositio torrat array tor 1.11	_	
Specific target organ toxicity	•	Category 3 (Central nervous system)
- single exposure		
Specific target organ toxicity		Category 2
- repeated exposure	•	Category 2
Aspiration hazard	÷	Category 1
	•	

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ersion .0	Revision Date: 09/23/2024	SDS Number: 800080100706	Date of last issue: 02/16/2023 Date of first issue: 02/16/2023
	abel elements rd pictograms		
Signa	l word	: Danger	•
Hazar	rd statements	H304 May be f H317 May cau H318 Causes H336 May cau H351 Suspect H361 Suspect H371 May cau	Harmful if swallowed or if inhaled. Tatal if swallowed and enters airways. Se an allergic skin reaction. Serious eye damage. Se drowsiness or dizziness. Ted of causing cancer. Ted of damaging fertility or the unborn child. Se damage to organs if swallowed. Se damage to organs through prolonged or re-
Preca	utionary statements	P202 Do not h and understoo P210 Keep aw and other ignit P260 Do not b P264 Wash sk P270 Do not e P271 Use only P272 Contami the workplace. P280 Wear pro face protection Response: P301 + P310 I CENTER/ doct P302 + P352 I P304 + P340 + and keep comi doctor if you fe P305 + P351 + water for sevel and easy to do CENTER/ doct P308 + P311 I CENTER/ doct P308 + P311 I CENTER/ doct P331 Do NOT P333 + P313 I attention. P362 + P364 T reuse. P370 + P378 I	 ay from heat, hot surfaces, sparks, open flames ion sources. No smoking. reathe dust/ fume/ gas/ mist/ vapours/ spray. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. nated work clothing should not be allowed out o otective gloves/ protective clothing/ eye protection. F SWALLOWED: Immediately call a POISON tor. F ON SKIN: Wash with plenty of water. P312 IF INHALED: Remove person to fresh ai fortable for breathing. Call a POISON CENTER/ eel unwell. P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present to. Continue rinsing. Immediately call a POISON tor. F exposed or concerned: Call a POISON

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		tightly P405 \$ Dispo	+ P233 Store in closed. Store locked up sal: Dispose of con	n a well-ventilated place. Keep containe p. tents/ container to an approved waste c
Additi	onal Labelling	posar	plant.	
		e of the mixture c	onsists of ingre	edient(s) with unknown acute toxicity:
2.983	%		-	
	hazards			
None I	known.			
	3. COMPOSITION	I/INFORMATION	ON INGREDIE	ENTS
<u> </u>	tance / Mixture	: Mixtur	е	
			-	
Comp	onents	1	-	_
Comp		Common Name/Synonym	CAS-No.	Concentration (% w/w)
Comp Chem	onents	Common	CAS-No. 1689-99-2	Concentration (% w/w) 25.62
Comp Chem bromc	onents ical name oxynil octanoate	Common Name/Synonym bromoxynil oc-		25.62
Comp Chem bromc (ISO) Tolpyr	onents ical name oxynil octanoate	Common Name/Synonym bromoxynil oc- tanoate (ISO)	1689-99-2	25.62
Comp Chem bromc (ISO) Tolpyr Cloqu Solver leum),	onents ical name oxynil octanoate ralate	Common Name/Synonym bromoxynil oc- tanoate (ISO) Tolpyralate Cloquintocet-	1689-99-2 1101132-67-5 99607-70-2	25.62 1.76
Comp Chem bromc (ISO) Tolpyr Cloqu Solver leum), Keros fied	onents ical name oxynil octanoate ralate intocet-mexyl nt naphtha (petro- , heavy arom.; ine — unspeci-	Common Name/Synonym bromoxynil oc- tanoate (ISO) Tolpyralate Cloquintocet- mexyl Solvent naphtha (petroleum), heavy arom.; Kerosine — un- specified	1689-99-2 1101132-67-5 99607-70-2	25.62 1.76 0.44
Comp Chem bromc (ISO) Tolpyr Cloqu Solver leum), Keros fied benzy	onents ical name oxynil octanoate ralate intocet-mexyl nt naphtha (petro- , heavy arom.;	Common Name/Synonym bromoxynil oc- tanoate (ISO) Tolpyralate Cloquintocet- mexyl Solvent naphtha (petroleum), heavy arom.; Kerosine — un-	1689-99-2 1101132-67-5 99607-70-2 64742-94-5	25.62 1.76 0.44 >= 30 - < 40 *

SECTION 4. FIRST AID MEASURES

If inhaled	:	Move person to fresh air; if effects occur, consult a physician.
In case of skin contact	:	Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation per-
		sists. Wash clothing before reuse.
		Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.
In case of eye contact	:	Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consul- tation, preferably from an ophthalmologist.
		Suitable emergency eye wash facility should be immediately available.
If swallowed	:	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Most important symptoms and effects, both acute and delayed	:	None known.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical re- sistant gloves, splash protection).

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	Notes to	o physician	:	personal protectiv Chemical eye bur prompt consultation No specific antido Treatment of expo	ns may require extended irrigation. Obtain on, preferably from an ophthalmologist.
		FIREFIGHTING MEAS			
	Suitable	e extinguishing media	÷	Water spray Alcohol-resistant	foom
				Carbon dioxide (C	
	Unsuita	ble extinguishing me-	:	Do not use direct	
	dia	iere entiligerennig me	•	High volume wate	
	Specific fighting	c hazards during fire-	:	Exposure to comb Vapours may form Do not allow run-o courses.	bustion products may be a hazard to health. In explosive mixtures with air. Off from fire fighting to enter drains or water ble over considerable distance.
	Hazard ucts	ous combustion prod-	:	tion to combustion be toxic and/or irr	ke may contain the original material in addi- n products of varying composition which may itating. ucts may include and are not limited to:
	0			Demonstration of the second	na di nambaina na fina na si tati na nfa ta da
	ods	extinguishing meth-	:	so. Evacuate area. Use extinguishing cumstances and t Use water spray t Collect contamina must not be disch Fire residues and	ged containers from fire area if it is safe to do measures that are appropriate to local cir- the surrounding environment. o cool unopened containers. ated fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
	Further	information	:	Use water spray t fected zone until f passed. Do not use a solid fire.	o cool fire exposed containers and fire af- ire is out and danger of reignition has d water stream as it may scatter and spread y to cool fully closed containers.
	Special for firefi	protective equipment	:	In the event of fire	e, wear self-contained breathing apparatus.
		ACCIDENTAL RELEA			tective equipment.
		al precautions, protec-		Ensure adequate	ventilation.
		ipment and emer-	-		tective equipment.
		brocedures		Use appropriate s	afety equipment. For additional information, Exposure Controls and Personal Protection.
	Environ	mental precautions	:	respective author Discharge into the Prevent further lea Prevent spreading barriers).	taminates rivers and lakes or drains inform ities. 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.

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		not l Prev	pe contain vent from e	es should be advised if significant spillages car ed. entering into soil, ditches, sewers, underwater. 2, Ecological Information.
	ods and materials for inment and cleaning up	ant. Loca posa emp For men be p Rec The with pres Kee Wip Non Con bent lite) tiona Sup	al or nation al of this m loyed in. large spills t to keep r umped, overed ma vent must spilled ma surization p in suitab e up with a -sparking tain spillag material, and place al regulatio press (kno y jet. Section 1	aining materials from spill with suitable absorb- nal regulations may apply to releases and dis- naterial, as well as those materials and items s, provide dyking or other appropriate contain- material from spreading. If dyked material can aterial should be stored in a vented container. c prevent the ingress of water as further reaction aterials can take place which could lead to over of the container. le, closed containers for disposal. absorbent material (e.g. cloth, fleece). tools should be used. ge, and then collect with non-combustible abso (e.g. sand, earth, diatomaceous earth, vermicu in container for disposal according to local / na ons (see section 13). ock down) gases/vapours/mists with a water 3, Disposal Considerations, for additional infor-
Local	7. HANDLING AND STC /Total ventilation e on safe handling	: Use : To a Avoi Pers aller be e used Prov Do r Han prac Avoi Smo catio Do r Do r Do r Cor Do r Han prac Avoi Smo Catio Do r Do r Avoi Smo Catio Do r Do r Avoi Smo Catio Do r Avoi Smo Catio	void spills d formatio sons susce gies, chro mployed i d. vide suffici- not breathe not smoke. dle in acco tice. d exposur king, eatin on area. not get on not breathe not swallow not get in e d contact p containe p away fro e precautio	ordance with good industrial hygiene and safet re - obtain special instructions before use. ng and drinking should be prohibited in the app skin or clothing. e vapours or spray mist. w.

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Cond	itions for safe storage	refer to Section : Store in a close No smoking.	
Mater	rials to avoid	kept upright to Keep in proper Store in accord Do not store ne Strong oxidizin	
Packa	aging material	Explosives Gases : Unsuitable mat	terial: None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of ex- posure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum), heavy arom.; Kerosine — un- specified	64742-94-5	TWA	100 mg/m3	Corteva OEL
		STEL	300 mg/m3	Corteva OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	CA AB OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
naphthalene	91-20-3	TWA	10 ppm	Dow IHG
		STEL	15 ppm	Dow IHG
		TWA	10 ppm 52 mg/m3	CA AB OEL
		STEL	15 ppm 79 mg/m3	CA AB OEL
		TWA	10 ppm	CA BC OEL
		TWAEV	10 ppm	CA QC OEL
		TWA	10 ppm	ACGIH

 Engineering measures
 :
 Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

 Personal protective equipment
 Respiratory protection
 :

 Respiratory protection
 :
 Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines.

If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved particulate respirator.

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	Hand protection Remarks Eye protection	:	preferred glove la ral rubber ("latex trile" or "NBR"). ("EVAL"). Polyvi selection of a sp duration of use in all relevant work Other chemicals ments (cut/punct potential body re structions/specif Use chemical go	
	Skin and body protection ION 9. PHYSICAL AND CH			ly-covering clothing.
	Appearance	:	Liquid.	5
C	Colour	:	Amber to black	
C	Ddour	:	mild	
C	Odour Threshold	:	No data availab	le
þ	ЪН	:	4.9 (20 °C) No data availab	le
Ν	Melting point/ range	:	Not applicable	
F	Freezing point		No data availab	le
E	Boiling point/boiling range	:	No data availab	le
F	Flash point	:	66 °C	
			Method: EC Me	thod A9, closed cup
E	Evaporation rate	:	No data availab	le
F	Flammability (solid, gas)	:	No data availab	le
	Jpper explosion limit / Uppe lammability limit	er :	No data availab	le
	Lower explosion limit / Lowe lammability limit	er :	No data availab	le
١	/apour pressure	:	No data availab	le
F	Relative vapour density	:	No data availab	le
F	Relative density	:	1.06 Method: OECD	Test Guideline 109
C	Density	:	No data availab	le

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S	olubility Wat	y(ies) er solubility	:	No data available	9
Ą	Auto-ig	nition temperature	:	No data available	2
Vi	iscosity	V			
		osity, dynamic	:	No data available	
E	Explosi	ve properties	:	Not explosive	
C	Oxidizir	ng properties	:	No data available)
SECTI	ION 10	. STABILITY AND RE		ΓΙνιτγ	
	Reactiv		:		a reactivity hazard.
C	Chemic	al stability	:		n if stored and applied as directed.
				Stable under nor	
		lity of hazardous reac-	:		ommended storage conditions.
ti	ions				specially mentioned.
					m explosive mixture with air.
_					ve dust-air mixture.
		ons to avoid	:	Heat, flames and	sparks.
11	ncomp	atible materials	:	Strong acids	
				Strong bases	
	1			Strong oxidizing	
		ous decomposition	÷	Decomposition p	roducts depend upon temperature, air supply
р	product	S			of other materials.
				Carbon oxides	roducts can include and are not limited to:
OFOTI					
		. TOXICOLOGICAL IN	NFO	RIVIATION	
		oxicity			
	ompoi	ynil octanoate (ISO):			
		oral toxicity		LD50 (Rat): 238 n	aa/ka
F			•		component/mixture is moderately toxic after
A	Acute ir	nhalation toxicity	:	LC50 (Rat): 4 mg/	1
				Exposure time: 4	
				Test atmosphere:	
A	Acute d	lermal toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
т		1010.			
	olpyra Acute c	oral toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
^	A outo in	abalation toxiaity		LCE0 (Dot): > 211	ma/l
-		nhalation toxicity	•	LC50 (Rat): > 311	
				Exposure time: 4 Test atmosphere:	
				rest atmosphere.	dusi/mist
A	Acute d	lermal toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
C	loquin	tocet-mexyl:			
		oral toxicity	:		e): > 2,000 mg/kg aths occurred at this concentration. substance or mixture has no acute oral tox-

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Acute	inhalation toxicity	 LC50 (Rat, male and female): > 5.42 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inh tion toxicity 	nala-
Acute	e dermal toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg	
Solve	nt naphtha (petroleum	, heavy arom.; Kerosine — unspecified:	
Acute	e oral toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: For similar material(s):	
Acute	inhalation toxicity	 LC50 (Rat): > 4.688 mg/l Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inh tion toxicity Remarks: For similar material(s): Maximum attainable concentration. 	ıala-
Acute	e dermal toxicity	 LD50 (Rabbit): > 3,160 mg/kg Assessment: The substance or mixture has no acute de toxicity Remarks: For similar material(s): 	rmal
benzy	l alcohol:		
Acute	e oral toxicity	: LD50 (Rat, male): 1,620 mg/kg	
Acute	inhalation toxicity	: LC50 (Rat): > 4.178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403	
Acute	e dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute de toxicity 	rmal
	ylated fatty alcohol:		
Acute	e oral toxicity	: LD50 (Rat): 500 - 2,000 mg/kg	
	halene: e oral toxicity	: LD50 (Rat): > 2,000 mg/kg	
		Lethal Dose (Humans): 5 - 15 grams Method: Estimated. Remarks: Excessive exposure may cause hemolysis, the impairing the blood's ability to transport oxygen. Ingestion of naphthalene by humans has caused hemoly anemia. Toxicity from swallowing may be greater in humans than animals. In humans, symptoms may include: Confusion. Lethargy. Muscle spasms or twitches. Convulsions. Coma.	ytic

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Acute	inhalation toxicity	:	respiratory tract (r Excessive exposu	ire may cause lung injury. ms of excessive exposure may include:
			tainable Concentr	h vapour C50 value is greater than the Maximum At-
Acute	dermal toxicity	:		00 mg/kg case reports suggest Naphthalene may be the skin in toxic amounts, especially in chil-
			LD50 (Rabbit): > 2	2,500 mg/kg
	orrosion/irritation			
	<u>onents:</u> I alcohol:			
Speci			Rabbit	
	sure time	÷	4 h	
Metho		÷	OECD Test Guide	eline 404
Resu		÷	No skin irritation	
GLP		:	yes	
<u>Comp</u>	us eye damage/eye irrit onents:	tatio	on	
-	l alcohol:		Dabbit	
Speci Resul		÷	Rabbit	
	sure time	:	Eye irritation 24 h	
Metho		:	OECD Test Guide	aline 405
GLP		÷	yes	
Ethox	ylated fatty alcohol:			
Resul		:	Corrosive	
Respi Produ	ratory or skin sensitisa ct:	atio	n	
Speci		:	Guinea pig	
Comp	onents:			
	oxynil octanoate (ISO):			
Resul		:	May cause sensiti	isation by skin contact.
Tolpy Rema		:	For skin sensitizat Did not cause sen	tion: Isitisation on laboratory animals.
				-

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Rema	ırks	:	For respiratory No relevant da	
Cloqu	intocet-mexyl:			
Speci		:	Guinea pig	
Asses	sment	:	May cause se	nsitisation by skin contact.
	nt naphtha (petroleum)), he		rosine — unspecified:
Speci		:	Guinea pig	
Resul		:		e skin sensitisation.
Rema	irks	:	For similar ma	terial(s):
	l alcohol:			
Speci		:	Mouse	
Metho		÷	OECD Test G	
Resul	t	•	Does not caus	e skin sensitisation.
	halene:			
	sment	:		e skin sensitisation.
Rema	Irks	:		nay cause an allergic skin reaction in a small
			proportion of in	allergic skin reactions when tested in guinea
			pigs.	
Rema	rke		For respiratory	sensitization.
Reind		•	No relevant da	
	cell mutagenicity <u>onents:</u> ·alate:			
Germ sessn	• •	:	Animal testing	did not show any mutagenic effects.
Cloqu	intocet-mexyl:			
	cell mutagenicity - As-	:	In vitro genetio	c toxicity studies were negative., Animal genetic
sessn	nent		toxicity studies	s were negative.
	nt naphtha (petroleum) cell mutagenicity - As- nent), he :	For similar ma	rosine — unspecified: terial(s):, In vitro genetic toxicity studies were mal genetic toxicity studies were negative.
benzv	l alcohol:			
	cell mutagenicity - As-	:	In vitro genetio	c toxicity studies were negative in some cases
sessn	• •			other cases., Animal genetic toxicity studies
			were negative	
naphtl	halene:			
	cell mutagenicity - As-	:	In vitro genetio	toxicity studies were negative in some cases
sessn	u		and positive ir	
Carcin	ogenicity			
	onents:			
Tolpyr	alate:			
	nogenicity - Assess-	:	Did not cause	cancer in laboratory animals.
ment				
	intocet-mexyl:		Did not course	cancer in laboratory animals.
ment	nogenicity - Assess-	:	Dia not cause	vanuer in laboratory animais.
ment				

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benzvl	alcohol:			
	nogenicity - Assess-	:	Did not cause c	ancer in laboratory animals.
naphth	nalene:			
Carcir ment	nogenicity - Assess-	:	there is limited on aphthalene pro-	ncer in some laboratory animals., In human evidence of cancer in workers involved in oduction. Limited oral studies in rats were n evidence of carcinogenicity in animal studies
	ductive toxicity			
	onents:			
	xynil octanoate (ISO):		a	
sessm		:	Suspected hum	an reproductive toxicant
Tolpyr				
Repro sessm	ductive toxicity - As- nent	:		es, did not interfere with reproduction. irth defects in laboratory animals.
Cloqui	intocet-mexyl:			
	ductive toxicity - As-	:		irth defects or any other fetal effects in labo
sessm	nent		tory animals.	
Solver	nt naphtha (petroleum)	. he	avy arom · Ker	osine — unspecified:
	ductive toxicity - As-	:		es, did not interfere with reproduction.
sessm	-		For similar mate	erial(s):, Did not cause birth defects or any ts in laboratory animals.
benzvl	l alcohol:			
	ductive toxicity - As-	:	Has been toxic	to the fetus in laboratory animals at doses
sessm	-		toxic to the mot	•
nanhti	nalene:			
	ductive toxicity - As-		Available data a	are inadequate to determine effects on repr
sessm	•	•	duction.	
000011				irth defects in laboratory animals.
	 single exposure 			-
	onents:			
Tolpyr				
ASSES	sment	:		are inadequate to determine single exposur
Cloqui	intocet-mexyl:		specific target o	ngan toxicity.
	intocet-mexyl. sment		Available data a	are inadequate to determine single exposur
		•	specific target of	
Solver	nt naphtha (petroleum)	h	awy arom · Kor	sine — unspecified:
	sure routes	, ne	Inhalation	Jame — unapecineu.
	sment	÷		vsiness or dizziness.
			-	
	l alcohol:		Evoluction of a	voilable date augments that this material is a
Asses	sment	:	an STOT-SE to	vailable data suggests that this material is n
Ethoxy	vlated fatty alcohol:			Alount.
-	sment	:	Evaluation of a	ailable data suggests that this material is n
			an STOT-SE to	
	nalene:			
Asses	sment	:		are inadequate to determine single exposure
			specific target of	organ toxicity.

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rsion)	Revision Date: 09/23/2024	SDS Number: 800080100706	Date of last issue: 02/16/2023 Date of first issue: 02/16/2023
STOT	- repeated exposure	9	
Comp	onents:		
Tolpyr	alate:		
Expos	sure routes	: Oral	
	t Organs	: Eyes, Kidne	ev. Liver
	sment		damage to organs through prolonged or repeate
		exposure.	
Repea	ted dose toxicity		
	onents:		
Tolpyr			
Rema		· In onimolo	offects have been reported on the following or
Rema	IKS		effects have been reported on the following or-
		gans:	
		Eye.	
		Kidney	
		Liver	
Cloqui	intocet-mexyl:		
Rema		: In animals.	effects have been reported on the following or-
		gans:	
		Liver.	
		Kidney.	
		Thymus.	
		Thyroid.	
		Bladder.	
		Bone marro	W.
Rema			vailable data, repeated exposures are not antici use significant adverse effects.
benzyl	l alcohol:		
Rema		: In animals,	effects have been reported on the following orga
		after inhalat	
			vous system.
		Muscles.	
		Thymus.	
			*
		Urinary trac	
			vailable data, repeated exposures to small
			e not anticipated to cause significant adverse ef
	• • • • • • • • •	fects.	
	vlated fatty alcohol:		
Rema	rks	: No relevant	data found.
naphth	nalene:		
Rema	rks	: Observation	ns in animals include:
		Respiratory	effects.
			exposure may cause hemolysis, thereby impairir
			ability to transport oxygen.
			nd other eye effects have been reported in hu-
			itedly exposed to naphthalene vapor or dust.
		-	naphthalene by humans has caused hemolytic
	_	anemia.	
	tion toxicity		
	onents:		
Tolpyr	alate:		

Tolpyralate:

Based on available information, aspiration hazard could not be determined.

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Cloquintocet-mexyl:

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

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified: May be fatal if swallowed and enters airways.

benzyl alcohol:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Ethoxylated fatty alcohol:

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

naphthalene:

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

TION 12. ECOLOGICAL INFO Ecotoxicity <u>Components:</u> bromoxynil octanoate (ISO):	RM	ATION
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.11 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapita): 0.21 mg/l Exposure time: 72 h
Tolpyralate: Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	NOEC (Lemna gibba (gibbous duckweed)): 0.00102 mg/l Exposure time: 7 d
		ErC50 (Lemna gibba (gibbous duckweed)): > 0.244 mg/l Exposure time: 7 d
		ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 96 h
M-Factor (Chronic aquatic toxicity)	:	1
Cloquintocet-mexyl: Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.97 mg/l Exposure time: 96 h Test Type: flow-through test Method: Method Not Specified. Remarks: As the ester active substance.

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	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: flow-th Method: Method N	rough test
Toxic plants	ity to algae/aquatic s	:	EbC50 (alga Scer End point: Biomas Exposure time: 96 Method: Method N	δh
			EbC50 (Lemna m End point: Biomas Exposure time: 14 Method: Method N	ł d
	ity to soil dwelling or-	:	LC50 (Eisenia feti	da (earthworms)): > 1,000 mg/kg
ganis Toxic isms	ms ity to terrestrial organ-	:	oral LD50 (Anas p bodyweight.	olatyrhynchos (Mallard duck)): > 2000 mg/kg
			dietary LC50 (Ana mg/kg diet. Exposure time: 8	as platyrhynchos (Mallard duck)): > 5200 d
			oral LD50 (Apis m Exposure time: 48	nellifera (bees)): > 100 micrograms/bee 3 h
			contact LD50 (Api Exposure time: 48	is mellifera (bees)): > 100 micrograms/bee } h
	xicology Assessment e aquatic toxicity	:	Very toxic to aqua	itic life.
Chror	nic aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
	nt naphtha (petroleum) ity to fish		Remarks: For sim Material is modera	ilar material(s): ately toxic to aquatic organisms on an acute) between 1 and 10 mg/L in the most sensi-
			LC50 (Oncorhync Exposure time: 96 Remarks: For sim	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Remarks: For sim	
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokiro Exposure time: 72 Remarks: For sim	
Toxic isms	ity to terrestrial organ-	:	Remarks: Materia basis (LD50 > 200	l is practically non-toxic to birds on an acute 00 mg/kg).
	xicology Assessment nic aquatic toxicity	:	Toxic to aquatic li	fe with long lasting effects.

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	I alcohol: ity to fish	:	LC50 (Pimephale Exposure time: 96 Test Type: Static Method: Method I	
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	nagna (Water flea)): 230 mg/l 3 h est Guideline 202
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudoking mg/l End point: Growth Exposure time: 72 Test Type: Static Method: OECD T	2 h
			NOEC (Pseudoki mg/l Exposure time: 72 Test Type: Static Method: OECD T	
aquat	ity to daphnia and other tic invertebrates nic toxicity)	:	NOEC (Daphnia i Exposure time: 2 Test Type: semi-s Method: OECD T	1 d static test
Toxic	ity to microorganisms	:	EC50 (activated s End point: Respir Exposure time: 49 Test Type: Respir Method: OECD 2	9 h ration inhibition
	ylated fatty alcohol: ity to fish	:	Remarks: Materia	al is moderately toxic to aquatic organisms c C50/EC50 between 1 and 10 mg/L in the
			LC50 (Oncorhync Exposure time: 96	thus mykiss (rainbow trout)): 7.5 mg/l 6 h
	ity to daphnia and other tic invertebrates	:	Exposure time: 90	
Chror napht	xicology Assessment hic aquatic toxicity halene: ity to fish	:	Remarks: Materia acute basis (LC50	fe with long lasting effects. Il is highly toxic to aquatic organisms on an D/EC50 between 0.1 and 1 mg/L in the most
			sensitive species LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.11 mg/l
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 44 Test Type: static	

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ersion)	Revision Date: 09/23/2024	SDS Number: 80008010070	Date of last issue: 02/16/2023 Date of first issue: 02/16/2023
Toxicity plants	/ to algae/aquatic	Exposure	eletonema costatum (marine diatom)): 0.4 mg/l ime: 72 h Growth rate inhibition
M-Fact icity)	or (Acute aquatic tox-	: 1	
	y to fish (Chronic tox-	End point: Exposure	
M-Fact toxicity	or (Chronic aquatic)	: 1	
	icology Assessment c aquatic toxicity	: Very toxic	to aquatic life with long lasting effects.
Persiste <u>Compo</u> Tolpyra		y	
	radability		adily biodegradable. Material is expected to be readily biodegradable.
			Kerosine — unspecified:
-	radability alcohol:	Remarks:	t biodegradable Material is inherently biodegradable (reaches > gradation in OECD test(s) for inherent biodegrad
	radability	fied) Concentra Result: Re Biodegrad Exposure t Method: O	activated sludge, domestic (adaptation not speci- tion: 100 mg/l adily biodegradable. ation: 92 - 96 % ime: 14 d ECD Test Guideline 301C or Equivalent 10-day Window: Not applicable
ThOD		: 2.52 kg/kg	
Photod	egradation	Sensitiser:	Half-life (indirect photolysis) OH radicals ant: 8.25E-12 cm3/s stimated.
naphtha			
Biodeg	radability	Remarks:	adily biodegradable. Biodegradation under aerobic static laboratory cc igh (BOD20 or BOD28/ThOD > 40%).
Bioche mand (mical Oxygen De- BOD)	: 57.000 % Incubation	time: 5 d
		71.000 % Incubation	time: 10 d
		71.000 %	time: 20 d

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ThOD		:	3.00 kg/kg	
Photo	degradation	:	Test Type: Half-I Sensitiser: OH ra Concentration: 1 Rate constant: 2 Method: Estimate	,500,000 1/cm3 .16E-11 cm3/s
	cumulative potential onents: ralate:			
	cumulation	:	Remarks: Biocor Pow < 3).	ncentration potential is low (BCF < 100 or Log
tanol/	on coefficient: n-oc- water i ntocet-mexyl:	:	log Pow: 1.9	
	cumulation	:	Species: Fish Bioconcentration	factor (BCF): 122 - 621
Partiti tanol/	on coefficient: n-oc- water	:	log Pow: 5.2 (25 pH: 7	°C)
	nt naphtha (petroleum) on coefficient: n-oc- water), he :	Remarks: For sir	nilar material(s): potential is high (BCF > 3000 or Log Pow
	l alcohol: on coefficient: n-oc- water	:	log Pow: 1.10 Method: Measur Remarks: Biocor Pow < 3).	ed ncentration potential is low (BCF < 100 or Lo
Partiti tanol/		:		evant data found.
	nalene: cumulation	:	Species: Fish Bioconcentration Exposure time: 2 Method: Measure	
tanol/		:		ed ncentration potential is moderate (BCF be- 000 or Log Pow between 3 and 5).
Comp	ty in soil <u>onents:</u>			
Distrik	intocet-mexyl: oution among environ- al compartments	:	Koc: 38070 Method: Estimate Remarks: Expec 5000).	ed. ted to be relatively immobile in soil (Koc >
Distrik menta	nt naphtha (petroleum) oution among environ- al compartments I alcohol:		eavy arom.; Keros Remarks: No rele	

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	ution among environ- I compartments	:	tween 0 and 50). Given its very low	al for mobility in soil is very high (Koc be- Henry's constant, volatilization from natural moist soil is not expected to be an im-
Distrib menta	vlated fatty alcohol: ution among environ- l compartments	:	Remarks: No rele	vant data found.
	ution among environ- l compartments	:	Koc: 240 - 1300 Method: Measure Remarks: Potentia 150 and 500).	d al for mobility in soil is medium (Koc between
Compo	adverse effects onents:			
	ntocet-mexyl: is of PBT and vPvB as- ient	:	lating and toxic (P	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
Ozone	e-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
	it naphtha (petroleum) is of PBT and vPvB as- ient		Substance is not	ine — unspecified: persistent, bioaccumulative, and toxic (PBT). very persistent and very bioaccumulative
Ozone	e-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
	alcohol: as of PBT and vPvB as- tent	:	lating and toxic (P	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
Ozone	e-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
	vlated fatty alcohol: is of PBT and vPvB as- ient	:		as not been assessed for persistence, bioac-
Ozone	e-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
naphth Result sessm	s of PBT and vPvB as-	:	This substance ha	as not been assessed for persistence, bioac- xicity (PBT).
Ozone	-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.

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CTION 13. DISPOSAL CONSID Disposal methods	ERATIONS
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 authoritie. This information presented below only applies to the materia 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 identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applic ble regional, national and local laws.
CTION 14. TRANSPORT INFOR International Regulations	RMATION
UNRTDG	
UN number	: UN 3082
Proper shipping name	 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (Bromoxynil octanoate)
Class	: 9
Packing group	. 9 : III
Labels	: 9
Environmentally hazardous	. 9 : no
IATA-DGR	
UN/ID No.	: UN 3082
Proper shipping name	 Environmentally hazardous substance, liquid, n.o.s. (Bromoxynil octanoate)
Class	: 9
Packing group	: III
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 964
Packing instruction (passen- ger aircraft)	: 964
IMDG-Code	
UN number	: UN 3082
Proper shipping name	 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (Bromoxynil octanoate)
Class	: 9
Packing group	: Ŭ
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes(Bromoxynil octanoate)
Remarks	: Stowage category A
Transport in bulk according to Not applicable for product as so National Regulations	to Annex II of MARPOL 73/78 and the IBC Code
TDG	
UN number	
UN NUMBER	: UN 3082

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Proper shipping name		:	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil octanoate)		
Class		:	: 9		
Packing group		:	III		
Labels		:	9		
ERG Code		:	171		
Marine pollutant		:	yes(Bromoxynil octanoate)		

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

DSL

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 : 34709

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.

WARNING POISON EYE AND SKIN IRRITANT POTENTIAL SKIN SENSITIZER

Allergens Contained in the Pest Control Product: Warning, contains the allergen sulfites May be fatal if absorbed through the skin or swallowed This product is toxic to: Aquatic organisms Non-target terrestrial plants

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.

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Full tex	t of other abbreviation	ons					
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 QC OEL		:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants				
Corteva OEL		:	Corteva Occupational Exposure Limit				
Dow IHG		:	Dow Industrial Hygiene Guideline				
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 QC OEL / TWAEV		:	Time-weighted average exposure value				
Corteva OEL / STEL Corteva OEL / TWA Dow IHG / STEL Dow IHG / TWA		: :	Short term exposure limit Time weighted average Short term exposure limit Time weighted average				

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-5036

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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