

ENLIST DUO™ Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05/01/2023	800080002768	Date of first issue: 05/01/2023

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.

ECTION 1. IDENTIFICATION Product name Other means of identification	:	ENLIST DUO™ Herbicide No data available
Manufacturer or supplier's	deta	ails
COMPANY IDENTIFICATIO	N	
Manufacturer/importer		CORTEVA AGRISCIENCE CANADA COMPANY #2450, 215 - 2ND STREET S.W. CALGARY AB, T2P 1M4 CANADA
Customer Information	:	800-667-3852
E-mail address	:	solutions@corteva.com
Emergency telephone number	:	CANUTEC
		1-888-226-8832
Recommended use of the c	hen	nical and restrictions on use
Recommended use	:	End use herbicide product
ECTION 2. HAZARDS IDENTIF	ICA.	TION
GHS classification in accor	dan	ce with the Hazardous Products Regulations
Skin sensitisation	:	Sub-category 1B
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : P

Prevention:

P261 Avoid breathing mist or vapours.P272 Contaminated work clothing should not be allowed out of the workplace.P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

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rsion)	Revision Date: 05/01/2023	SDS Numl 800080002		of last issue: - of first issue: 05/01/2023	
		P362 - reuse.	+ P364 Take off	contaminated clothing and wash it before	
Othe	r hazards	Dispo : P501 [posal p	Dispose of conte	nts/ container to an approved waste dis-	
None	known.				
Subst	3. COMPOSITIOI tance / Mixture	N/INFORMATION : Mixture	•••••	NTS	
Subst		: Mixture	•••••	NTS Concentration (% w/w)	
Subst Com Cherr	tance / Mixture ponents	: Mixture Common Name/Synonym 2,4-D choline	e		
Subst Com Chem 2,4-D	tance / Mixture ponents nical name	: Mixture Common Name/Synonym	e CAS-No.	Concentration (% w/w)	
Subst Com Cherr 2,4-D Glyph	tance / Mixture ponents hical name choline salt hosate DMA Salt	: Mixture Common Name/Synonym 2,4-D choline salt Glyphosate DMA Salt	e CAS-No. 1048373-72-3 34494-04-7	Concentration (% w/w) 24.4	
Subst Com Chem 2,4-D Glyph Propy LAUR	tance / Mixture ponents nical name choline salt	: Mixture Common Name/Synonym 2,4-D choline salt Glyphosate DMA Salt Propylene glycol	e CAS-No. 1048373-72-3 34494-04-7	Concentration (% w/w) 24.4 22.1	

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled	:	Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respi- ration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
In case of skin contact	:	Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of
		properly. Suitable emergency safety shower facility should be available in work area.
In case of eye contact	:	Hold eyes open and rinse slowly and gently with water for 15- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Suitable emergency eye wash facility should be available in
		work area.
If swallowed	:	Call a poison control center or doctor immediately for treat- ment advice. Have person sip a glass of water if able to swal- low. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.
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-



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Notes	Notes to physician		 sistant gloves, splash protection). If potential for exposure exists refer to Section 8 for personal protective equipment. No specific antidote. Treatment of exposure should be directed at the cor symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the pr tainer or label with you when calling a poison controd doctor, or going for treatment. Skin contact may aggravate preexisting dermatitis. 				
SECTION	5. FIREFIGHTING MEA	SU	RES				
Suitab	le extinguishing media	:	Water spray	f			
Unsuit media	table extinguishing	:	Alcohol-resistant None known.	loam			
	ic hazards during fire-	:		bustion products may be a hazard to health. off from fire fighting to enter drains or water			
Hazar ucts	dous combustion prod-	:	tion to combustion be toxic and/or irr	oke may contain the original material in addi n products of varying composition which ma itating. ucts may include and are not limited to:			
Specif ods	ic extinguishing meth-	:	Remove undamag so. Evacuate area.	ged containers from fire area if it is safe to o			
Specia	Further information Special protective equipment for firefighters		Use extinguishing cumstances and to Use water spray to Collect contaminat must not be disch Fire residues and be disposed of in In the event of fire	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ated fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations. e, wear self-contained breathing apparatus. tective equipment.			
ECTION	6. ACCIDENTAL RELE	ASI	E MEASURES				
tive ec	nal precautions, protec- quipment and emer- procedures	:	Use appropriate s	tective equipment. afety equipment. For additional information , Exposure Controls and Personal Protectio			
Enviro	onmental precautions	:	respective author Discharge into the Prevent further le Prevent spreading barriers). Retain and dispos Local authorities s cannot be contain 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 o se of contaminated wash water. should be advised if significant spillages			
	ods and materials for nment and cleaning up	:	Clean up remainir ant.	ng materials from spill with suitable absorb-			



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		posal of this m employed in. For large spills ment to keep n be pumped, Recovered ma The vent must with spilled ma pressurization Keep in suitabl Wipe up with a Soak up with ir acid binder, un	al regulations may apply to releases and dis- aterial, as well as those materials and items , provide dyking or other appropriate contain- naterial from spreading. If dyked material can terial should be stored in a vented container. prevent the ingress of water as further reaction terials can take place which could lead to over- of the container. e, closed containers for disposal. bsorbent material (e.g. cloth, fleece). nert absorbent material (e.g. sand, silica gel, iversal binder, sawdust). 8, Disposal Considerations, for additional infor-
	7. HANDLING AND ST e on safe handling	: Persons susce allergies, chror be employed ir used.	ptible to skin sensitisation problems or asthma, nic or recurrent respiratory disease should not n any process in which this mixture is being
		practice. Avoid exposure	•
		Do not get on s Avoid inhalatio Do not swallow	with skin and eyes.
		Take care to p environment. Use appropriat	revent spills, waste and minimize release to the e safety equipment. For additional information, n 8, Exposure Controls and Personal Protection
Condi	itions for safe storage	: Store in a close Containers whi kept upright to Keep in proper	ed container. ch are opened must be carefully resealed and prevent leakage. ly labelled containers.
	rials to avoid aging material	: Strong oxidizin	dance with the particular national regulations. g agents terial: None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
2,4-D choline salt	1048373-72- 3	TWA	10 mg/m3	Dow IHG
Propylene glycol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m3	CA ON OEL



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				TWA (aero- sol)	10 mg/m3	CA ON OE	
Engi	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 require- ments or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some opera- tions.				
Pers	onal protective equip	ment					
Resp	biratory protection	tial If ti gui suo Foi neo	to exceed here are no delines, we ch as respir ced, or whe most cond eded; how	the exposure lin applicable expo- ear respiratory p ratory irritation o ere indicated by ditions no respira	be worn when there nit requirements or go osure limit requirement rotection when adver or discomfort have be your risk assessment atory protection shou ort is experienced, us	uidelines. nts or se effects, en experi- t process. ld be	
Hand	d protection	pre		inying respirator			
R	Remarks		ferred glov rubber ("lat e" or "NBR" VAL"). Poly ection of a ration of us relevant wo chemicals w t/puncture body react ns/specifica	e barrier materi tex"). Neoprene). Polyethylene. vvinyl chloride (" specific glove for e in a workplace orkplace factors which may be ha protection, dext ions to glove m tions provided b	nt to this material. Exals include: Butyl rub . Nitrile/butadiene rub Ethyl vinyl alcohol la 'PVC" or "vinyl"). NO or a particular applicate should also take into such as, but not limit andled, physical requ erity, thermal protecti aterials, as well as thosy the glove supplier.	ber. Natu- bber ("ni- minate TICE: The tion and b account ed to: Oth- irements on), poten-	
	protection and body protection	: Us Se	ection of sp	e clothing chemi	cally resistant to this ch as face shield, boo n the task.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquia
Colour	: Brown
Odour	: Amine.
Odour Threshold	: No data available
рН	: 5.6 - 6.17 Method: pH Electrode
Melting point/range	: Not applicable
Freezing point	No data available
Boiling point/boiling range	: No data available
Flash point	: > 100 °C



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		I	Method: Pensky-	Martens Closed Cup ASTM D 93, closed cup
Evap	poration rate	: 1	No data available	
	er explosion limit / Upper mability limit	: 1	No data available	
	er explosion limit / Lower mability limit	: 1	No data available	
Vapo	our pressure	: 1	No data available	
Rela	tive vapour density	: 1	No data available	
Dens	sity		1.17 g/cm3 (20.0 Method: Digital de	
	bility(ies) /ater solubility	:	No data available	
	tion coefficient: n- nol/water	:	No data available	
Auto	-ignition temperature	:	No data available	
Visco V	osity iscosity, dynamic	: :	32.7 mPa,s (20.0) °C)
			14.9 mPa,s (40.0) °C)
			26.3 cP (25 °C)	
Expl	osive properties	: 1	No	
Oxid	izing properties	: !	yes	
			Reference substa	ance: Potassium permanganate
SECTION	10. STABILITY AND R	EACTI	VITY	
	ctivity nical stability	: 1		a reactivity hazard. n if stored and applied as directed. mal conditions
Poss tions	sibility of hazardous reac-	: :	Stable under reco	specially mentioned.
Inco	ditions to avoid mpatible materials ardous decomposition ucts	: : : ;	None known. None. Decomposition pr and the presence	oducts depend upon temperature, air supply of other materials. oducts can include and are not limited to:

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity						
Product:						
Acute oral toxicity	:	LD50 (Rat, female): > 2,500 mg/kg Method: OECD Test Guideline 425				



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Acute inhalation toxicity		 LC50 (Rat, male and female): > 5.10 mg/l Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: No deaths occurred at this concentration. 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
Comp	oonents:	
2,4-D	choline salt:	
Acute	oral toxicity	: LD50 (Rat): 639 mg/kg Remarks: For similar active ingredient(s).
Acute	inhalation toxicity	 Remarks: At room temperature, exposures to vapors are m imal due to physical properties; higher temperatures may generate vapor levels sufficient to cause irritation and othe effects. Prolonged excessive exposure to dust may cause adverse effects. Dust may cause irritation to upper respiratory tract (nose an throat).
		LC50 (Rat): > 1.79 mg/l Exposure time: 4 h Test atmosphere: dust/mist Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala tion toxicity Remarks: For similar active ingredient(s). Maximum attainable concentration.
Acute	dermal toxicity	: LD50 (Rabbit, male and female): > 5,000 mg/kg Remarks: For similar active ingredient(s).
Glypł	nosate DMA Salt:	
Acute	oral toxicity	: LD50 (Rat): > 4,000 mg/kg Remarks: For similar active ingredient(s).
Acute	inhalation toxicity	: Remarks: Prolonged excessive exposure to dust may caus adverse effects.
		LC50 (Rat): > 1.9 mg/l Test atmosphere: dust/mist Remarks: For similar active ingredient(s).
Acute	dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: For similar active ingredient(s).
Propy	vlene glycol:	
Acute	oral toxicity	: LD50 (Rat): > 20,000 mg/kg
Acute	inhalation toxicity	 LC50 (Rabbit): 317.042 mg/l Exposure time: 2 h Test atmosphere: dust/mist Symptoms: No deaths occurred at this concentration.



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		Assessment: The substance or mixture has r tion toxicity Remarks: Mist may cause irritation of upper r (nose and throat).	
Acute	dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Symptoms: No deaths occurred at this conce Assessment: The substance or mixture has r toxicity 	
LAUR		OXIDE:	
Acute	oral toxicity	: LD50 (Mouse): 2,700 mg/kg Remarks: There may be a feeling of bloating the abdomen, nausea, vomiting and diarrhea	
Skin o	corrosion/irritation		
Produ	uct:		
Specie Metho Result	es od	: Rabbit : OECD Test Guideline 404 : No skin irritation	
<u>Comp</u>	oonents:		
2.4-D	choline salt:		
, Result		: No skin irritation	
Propy	/lene glycol:		
Specie Result		: Rabbit : No skin irritation	
LAUR		OXIDE:	
Result	t	: Skin irritation	
Serio	us eye damage/eye	ritation	
Produ	uct:		
Specie		: Rabbit	
Result	t	: No eye irritation	
Metho		: OECD Test Guideline 405	
<u>Comp</u>	oonents:		
2,4-D	choline salt:		
Result	t	: Corrosive	
Propy	/lene glycol:		
Specie		: Rabbit	
Result		: No eye irritation	
Result	-	: Eye irritation	
-	iratory or skin sens	Sation	
<u>Produ</u>			
Test T		: Local lymph node assay (LLNA)	
Specie		: Mouse : The product is a skin sensitiser, sub-category	
Asses	sment		VIR



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	Comp	onents:			
	2,4-D o	choline salt:			
	Assess Remar		:	pigs.	kin sensitisation. Irgic skin reactions when tested in guinea ate the potential for contact allergy in mice.
	Remar	ks	:	For respiratory se	
	Propyl	ene glycol:			
	Specie Assess		:	human Does not cause s	kin sensitisation.
	Germ	cell mutagenicity			
	Comp	onents:			
	2,4-D o	choline salt:			
	Germ o Assess	cell mutagenicity - sment	:		ingredient(s)., 2,4-Dichlorophenoxyacetic etic toxicity studies were predominantly neg-
		osate DMA Salt:			
	Germ (Assess	cell mutagenicity - sment	:		ingredient(s)., Glyphosate., In vitro genetic ere negative., Animal genetic toxicity studies
		ene glycol:			
	Germ o Assess	cell mutagenicity - ment	:	In vitro genetic to: toxicity studies we	xicity studies were negative., Animal genetic ere negative.
	Carcin	ogenicity			
	Produc Carcino ment	<u>ct:</u> ogenicity - Assess-	:	Animal testing did	not show any carcinogenic effects.
	Comp	onents:			
	2,4-D o	choline salt:			
	Carcino ment	ogenicity - Assess-	:	cinogenicity in lab epidemiological si 2,4-D exposure a the epidemiology	ingredient(s)., There is no evidence of car- oratory animal toxicity studies. While some tudies report a positive association between nd cancer, a weight of evidence analysis of data across studies reveals no indication cancer in humans.
		osate DMA Salt:			
	Carcino ment	ogenicity - Assess-	:	cancer in laborato	ingredient(s)., Glyphosate., Did not cause bry animals., Weight of evidence evaluation tudies supports no association between ure and cancer.
		ene glycol:			
	Carcino ment	ogenicity - Assess-	:	Did not cause car	ncer in laboratory animals.



sion	Revision Date: 05/01/2023		umber: 0002768	Date of last issue: - Date of first issue: 05/01/2023
Repro	ductive toxicity			
<u>Comp</u>	onents:			
	choline salt: ductive toxicity - As- ent	aci ent spr Fo aci	d., In labora animals ca ing. r similar acti	ve ingredient(s)., 2,4-Dichlorophenoxyacetic tory animals, excessive doses toxic to the par- used decreased weight and survival of off- ve ingredient(s)., 2,4-Dichlorophenoxyacetic n toxic to the fetus in laboratory animals at dos mother.
Glyph	osate DMA Salt:			
	ductive toxicity - As-	ani at o ma Foi to t	mal studies doses that p Ils. r similar acti the fetus in l	ve ingredient(s)., Glyphosate., In laboratory effects on reproduction have been seen only roduced significant toxicity to the parent ani- ve ingredient(s)., Glyphosate., Has been toxic aboratory animals at doses toxic to the mother pirth defects in laboratory animals.
Propy	lene glycol:			
Reproo sessm	ductive toxicity - As- ent	ma Dic	I 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	- single exposure			
<u>Produ</u> Assess			aluation of a STOT-SE to	vailable data suggests that this material is not oxicant.
<u>Comp</u>	onents:			
2.4-D	choline salt:			
Assess			aluation of a STOT-SE to	vailable data suggests that this material is not oxicant.
Glyph	osate DMA Salt:			
Assess	sment		aluation of a STOT-SE to	vailable data suggests that this material is not oxicant.
Propy Assess	lene glycol: sment		aluation of a STOT-SE to	vailable data suggests that this material is not pxicant.
LAUR	YLDIMETHYLAMINE	OXIDE:		
Assess	sment		aluation of a STOT-SE to	vailable data suggests that this material is not oxicant.
Repea	ted dose toxicity			
<u>Comp</u>	onents:			
2,4-D	choline salt:			
Remar		2,4	-Dichloroph	ve ingredient(s). enoxyacetic acid. ects have been reported on the following or-



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		gans: Liver. Kidney. Muscles. Observations Gastrointestin Vomiting.	in animals include: al irritation.
Glyph	osate DMA Salt:		
Remar	ks	Glyphosate. Based on ava	tive ingredient(s). ilable data, repeated exposures are not antici- e significant adverse effects.
Propy	lene glycol:		
Remar	ks		repeated excessive exposure to propylene gly e central nervous system effects.
LAUR	YLDIMETHYLAMINE C	XIDE:	
Remar	ks	: No relevant da	ata found.
Aspira	ation toxicity		
<u>Produ</u>			
	on physical properties,	not likely to be an	aspiration hazard.
<u>Comp</u>	<u>onents:</u>		
	choline salt: on physical properties,	not likely to be an	aspiration hazard.
Glyph	osate DMA Salt:		
Based	on physical properties,	not likely to be an	aspiration hazard.
	lene glycol: on physical properties,	not likely to be an	aspiration hazard.
	YLDIMETHYLAMINE C	•	
	on physical properties,		aspiration hazard.
	12. ECOLOGICAL INFO		•
Ecoto: Produ	-		
	y to fish	Exposure time Test Type: sta	
	y to daphnia and other c invertebrates	Exposure time Test Type: sta	
Toxicit plants	y to algae/aquatic	mg/l End point: Gro Exposure time Test Type: sta	



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	Toxicity ganisms	to soil dwelling or- s	:	LC50 (Eisenia feti Exposure time: 14	da (earthworms)): > 2,000 mg/kg ⊧d
	Toxicity isms	to terrestrial organ-	:	oral LD50 (Colinus bodyweight. End point: mortalit	s virginianus (Bobwhite quail)): 1688 mg/kg ty
				contact LD50 (Api Exposure time: 48 End point: mortalit Method: Other gui	ty
				oral LD50 (Apis m Exposure time: 48 End point: mortalit Method: Other gui	ty
		icology Assessment quatic toxicity	:	Toxic to aquatic lif	e.
<u>.</u>	<u>Compo</u>	onents:			
:	2,4-D c	holine salt:			
	Toxicity	to fish	:	Material is highly t	ilar active ingredient(s). oxic to aquatic organisms on an acute basis een 0.1 and 1 mg/L in the most sensitive
				Exposure time: 96 Test Type: static t	
		to daphnia and other invertebrates	:	LC50 (stonefly Pte Exposure time: 96 Test Type: static t	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 96 Test Type: static t Remarks: For sim	est
				EC50 (Lemna gibl Exposure time: 14 Remarks: For sim	d
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale End point: growth Exposure time: 32	es promelas (fathead minnow)): 63.4 mg/l 2 d
i		to daphnia and other invertebrates (Chron- ty)	:	End point: number Exposure time: 21	



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Toxicity isms	to terrestrial organ-	:	toxic to birds on a	ilar active ingredient(s)., Material is slightly in acute basis (LD50 between 501 and 2000 is practically non-toxic to birds on a dietary 00 ppm).
			mg/kg diet.	inus virginianus (Bobwhite quail)): > 5620 ilar active ingredient(s).
			oral LD50 (Anas p bodyweight.	platyrhynchos (Mallard duck)): > 500 mg/kg nilar active ingredient(s).
				nellifera (bees)): 94 micrograms/bee ilar active ingredient(s).
Acute a	icology Assessment	:	Very toxic to aqua	atic life.
Glyphc Toxicity	osate DMA Salt: to fish	:	Glyphosate. Material is slightly	ilar active ingredient(s). toxic to aquatic organisms on an acute ba etween 10 and 100 mg/L in the most sensi d).
			LC50 (Oncorhync Exposure time: 96 Remarks: For sim	
	to daphnia and other invertebrates	:	Exposure time: 48	
Toxicity plants	to algae/aquatic	:	ErC50 (Lemna gik End point: Growth Exposure time: 14 Remarks: For sim	n rate inhibition 4 d
			ErC50 (Pseudokir mg/l End point: Growth Exposure time: 72 Remarks: For sim	2 h
			ErC50 (Skeletone Exposure time: 72 Remarks: For sim	
Toxicity isms	to terrestrial organ-	:	basis (LD50 > 200	l is practically non-toxic to birds on an acu 00 mg/kg)., Material is slightly toxic to birds (LC50 between 1001 and 5000 ppm).
	icology Assessment	:	Toxic to oquatic li	fe with long lasting effects.

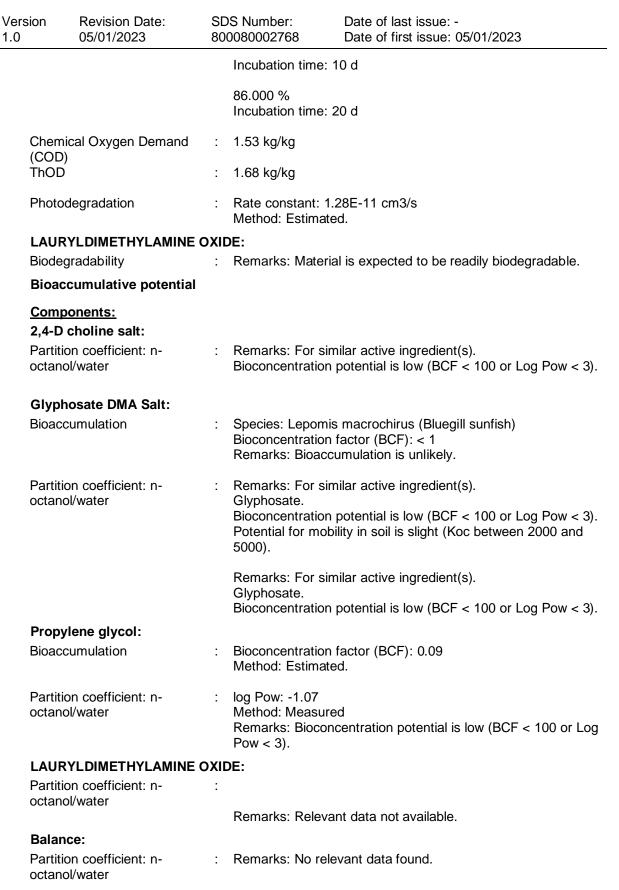
Propylene glycol:



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		to daphnia and other invertebrates	:	LC50 (Ceriodaphr Exposure time: 48 Test Type: static t Method: OECD Te	est
	Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokir 19,000 mg/l End point: Growth Exposure time: 96 Method: OECD Te	δ h
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Ceriodaph End point: numbe Exposure time: 7 Test Type: semi-s	d
	Toxicity	to microorganisms	:	NOEC (Pseudomo Exposure time: 18	onas putida): > 20,000 mg/l 3 h
	Persist	ence and degradabili	ity		
	<u>Compo</u> 2,4-D c	o <u>nents:</u> holine salt:			
	Biodegr	adability	:	Biodegradation ur	ilar active ingredient(s). Ider aerobic static laboratory conditions is OD28/ThOD > 40%).
	Glypho	osate DMA Salt:		0	
	Biodegr	adability	:	Glyphosate. Biodegradation m presence of oxyge Material is expected	ilar active ingredient(s). ay occur under aerobic conditions (in the
		ene glycol:		-	
	Biodegr	adability	:	aerobic Result: Readily bid Biodegradation: 8 Exposure time: 28 Method: OECD Te Remarks: 10-day	31 % 3 d est Guideline 301F or Equivalent
	Biocher mand (I	nical Oxygen De- BOD)	:	69.000 % Incubation time: 5	d
				70.000 %	





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Mobilit	ty in soil			
<u>Compo</u>	onents:			
2,4-D c	choline salt:			
	ution among environ- compartments	:		ed nilar active ingredient(s). ility in soil is high (Koc between 50 and 150)
Glypho	osate DMA Salt:			
	ution among environ- compartments	:	Glyphosate.	nilar active ingredient(s). elatively immobile in soil (Koc > 5000).
Propyl	ene glycol:			
	ution among environ- compartments	:	from natural bodi an important fate	its very low Henry's constant, volatilization es of water or moist soil is not expected to the
LAUR		OXI		
	ution among environ- compartments	:	Remarks: No rele	evant data found.
Balanc	e:			
	ution among environ- compartments	:	Remarks: No rele	evant data found.
Other	adverse effects			
Produc	<u>ct:</u>			
Results assess	s of PBT and vPvB ment	:	tent, bioaccumula	tains no substance considered to be persis- ating and toxic (PBT). This mixture contains nsidered to be very persistent and very bio- vB).
<u>Compo</u>	onents:			
2,4-D c	choline salt:			
Results assess	s of PBT and vPvB ment	:	lating and toxic (s not considered to be persistent, bioaccum PBT). This substance is not considered to b nd very bioaccumulating (vPvB).
Ozone	-Depletion Potential	:		ubstance is not on the Montreal Protocol list at deplete the ozone layer.
Glypho	osate DMA Salt:			
Results assess	s of PBT and vPvB ment	:	lating and toxic (s not considered to be persistent, bioaccum PBT). This substance is not considered to b nd very bioaccumulating (vPvB).
Ozone	Depletion Potential	:		ubstance is not on the Montreal Protocol lis at deplete the ozone layer.
Propyl	ene glycol:			
Deeulte	s of PBT and vPvB		This substance is	s not considered to be persistent, bioaccum



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				very persistent ar	d very bioaccumulating (vPvB).
	Ozone-	Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
	LAURY	LDIMETHYLAMINE C	DXI	DE:	
	Results assess	s of PBT and vPvB ment	:	This substance had cumulation and to	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.
	Balanc	e:			
	Results assess	s of PBT and vPvB ment	:	This substance had cumulation and to	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.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG

Not regulated as a dangerous good

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



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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).

SECTION 15. REGULATORY INFORMATION

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

DSL

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

Pest Control Products Act (PCPA) Registration Number : 30958

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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.

CAUTION EYE IRRITANT

POTENTIAL SKIN SENSITIZER

This product is toxic to: Small mammals Birds 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.

Full text of other abbreviations

CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
Dow IHG	:	Dow Industrial Hygiene Guideline
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
Dow IHG / TWA	:	Time Weighted Average (TWA):

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and



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Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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Product code: GF-2726

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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