according to the Hazardous Products Regulations



GRAZON™ XC Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04/18/2024	800080005328	Date of first issue: 04/18/2024

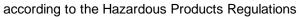
Corteva Agriscience[™] encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports 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	:	GRAZON™ XC Herbicide
Other means of identification	:	No data available
Manufacturer or supplier's d COMPANY IDENTIFICATION		ils
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 ch Recommended use	nem	ical and restrictions on use End use herbicide product
SECTION 2. HAZARDS IDENTIFIC	САТ	· · · · · · · · · · · · · · · · · · ·
		ce with the Hazardous Products Regulations
Eye irritation	:	Category 2A
Skin sensitisation	:	Sub-category 1B
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
Precautionary statements	:	 Prevention: P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection. Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
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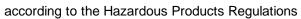
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	r hazards known.	tion. P362 reuse Disp o P501	+ P364 Take osal:	e irritation persists: Get medical advice/ atten- off contaminated clothing and wash it before ontents/ container to an approved waste dis-		
SECTION	3. COMPOSITION stance / Mixture	/INFORMATION : Mixtu		IENTS		
	ponents		-			
	nical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)		
2,4-D) choline salt	2,4-D choline salt	1048373-72	-3 43.62		
	ram triisopropano- ne salt	Picloram triiso- propanolamine salt	6753-47-5	14.44		
Prop	ylene glycol	Propylene glyco	1 57-55-6	>= 3 - < 10 *		
1,1',1 2-ol	l'-nitrilotripropan-	1,1',1'-nitrilot- ripropan-2-ol	122-20-3	>= 3 - < 10 *		
Balar	nce	Balance	Not Assigne	d > 20		
* Actu	ual concentration or	concentration ra	ange is withhe	eld as a trade secret		
In ca	ase of skin contact	mask advic : Take plenty or do Wash which	etc). Call a po e. off contamina y of water for ctor for treatm clothing befor cannot be de	to mouth use rescuer protection (pocket oison control center or doctor for treatment ited clothing. Wash skin with soap and 15-20 minutes. Call a poison control center nent advice. For reuse. Shoes and other leather items econtaminated should be disposed of		
In ca	ase of eye contact	in wo : Hold 20 mi minut ter or	ble emergency rk area. eyes open and inutes. Remov es, then conti doctor for trea ble emergency	y safety shower facility should be available d rinse slowly and gently with water for 15- ve contact lenses, if present, after the first 5 nue rinsing eyes. Call a poison control cen- atment advice. y eye wash facility should be available in		
lf sw	vallowed	: Call a ment low. I contro	a poison contra advice. Have Do not induce ol center or do	ol center or doctor immediately for treat- person sip a glass of water if able to swal- vomiting unless told to do so by the poison octor. g by mouth to an unconscious person.		
	t important symptor effects, both acute yed	ms : None	known.			
	ection of first-aiders	and u	ise the recom	s should pay attention to self-protection mended protective clothing (chemical re- sh protection).		





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	Notes t	o physician	:	personal protectiv Maintain adequate No specific antido Treatment of expo symptoms and the Have the Safety D	e ventilation and oxygenation of the patient. te. osure should be directed at the control of e clinical condition of the patient. Data Sheet, and if available, the product con- n you when calling a poison control center or
SEC		FIREFIGHTING MEAS			
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f	oam
	Unsuita dia	ble extinguishing me-	:	None known.	
		hazards during fire-	:		bustion products may be a hazard to health. off from fire fighting to enter drains or water
	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:
	Specific ods	c extinguishing meth-	:	Remove undamag so. Evacuate area.	ged containers from fire area if it is safe to do
		information protective equipment ighters	:	Use extinguishing cumstances and t Use water spray t Collect contamina must not be disch Fire residues and be disposed of in	contaminated fire extinguishing water must accordance with local regulations. e, wear self-contained breathing apparatus.
SEC		ACCIDENTAL RELEA	SE		
	tive equ	al precautions, protec- upment and emer- procedures	:		ective equipment. afety equipment. For additional information, Exposure Controls and Personal Protection.
	Environ	mental precautions	:	respective authori Discharge into the Prevent further lea Prevent spreading barriers). Retain and dispos Local authorities s not be contained. Prevent from enter	taminates rivers and lakes or drains inform ties. e environment must be avoided. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil e of contaminated wash water. should be advised if significant spillages can- tring into soil, ditches, sewers, underwater. coological Information.
		ls and materials for ment 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 be pumped, Recovered ma The vent musi with spilled ma pressurization Keep in suitab Wipe up with a Soak up with i acid binder, ur	hal 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. t prevent the ingress of water as further reaction aterials can take place which could lead to over- of the container. Ide, closed containers for disposal. absorbent material (e.g. cloth, fleece). nert absorbent material (e.g. sand, silica gel, niversal binder, sawdust). 3, Disposal Considerations, for additional infor-
SECTION 7	7. HANDLING AND ST		
Advice	e on safe handling	 Persons susce allergies, chro be employed i used. Do not breathe Do not smoke Handle in acce practice. Avoid exposur Smoking, eatin cation area. Do not get on Avoid inhalatio Do not get in e Avoid contact Take care to p environment. Use appropria refer to Sectio 	brdance with good industrial hygiene and safety re - obtain special instructions before use. Ing and drinking should be prohibited in the appli- skin or clothing. on of vapour or mist. <i>w</i> . eyes. with skin and eyes. orevent spills, waste and minimize release to the te safety equipment. For additional information, n 8, Exposure Controls and Personal Protection.
Condi	tions for safe storage	: Store in a clos Containers wh kept upright to Keep in prope	ed container. hich are opened must be carefully resealed and prevent leakage. rly labelled containers.
Mater	ials to avoid	Store in accor : Strong oxidizir	dance with the particular national regulations.
	aging material		aterial: None known.

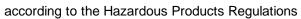
Com	oonents with	workplace	control	parameters
••••				parantero o

Components	CAS-No.	Value type (Form of ex- posure)	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 aer- osols)	50 ppm 155 mg/m3	CA ON OEL
		TWA (aero- sol)	10 mg/m3	CA ON OEL

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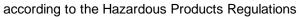


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1,1',1	l'-nitrilotripropan-2-ol		122-20-3	TWA	10 mg/m3	Dow IHG
-	neering measures	:	maintain airbo guidelines. If ments or guid for most oper	orne levels b there are no elines, gene ations.	ion, or other engineer elow exposure limit re papplicable exposure eral ventilation should may be necessary for	equirements or limit require- be sufficient
	nal protective equipmon iratory protection	ent	Respiratory p	rotection sh	ould be worn when the	are is a noten-
. cop			tial to exceed If there are no guidelines, we such as respi enced, or whe For most cond	the exposure applicable ear respirator ratory irritati ere indicated ditions no re ever, if disco	re limit requirements of exposure limit require ory protection when ad on or discomfort have d by your risk assessm spiratory protection sh omfort is experienced,	r guidelines. ments or verse effects, been experi- nent process. nould be
Hand	protection			inying respi		
Re Eye ç	orotection and body protection	:	preferred glov ral rubber ("la trile" or "NBR" ("EVAL"). Poly selection of a duration of us all relevant wo Other chemic ments (cut/pu potential body structions/spe Use chemical Use protective	ve barrier ma tex"). Neopr '). Polyethyli yvinyl chlorid specific glov e in a workp orkplace fac als which ma ncture prote v reactions to ecifications p goggles. e clothing ch	sistant to this material. aterials include: Butyl ene. Nitrile/butadiene ene. Ethyl vinyl alcoho de ("PVC" or "vinyl"). I ve for a particular app place should also take tors such as, but not li ay be handled, physic ection, dexterity, therm o glove materials, as v provided by the glove s	rubber. Natu- rubber ("ni- ol laminate NOTICE: The lication and into account mited to: al require- al protection), vell as the in- supplier.
					s such as face shield, ad on the task.	boots, apron,
	9. PHYSICAL AND CHE arance		AL PROPERT Liquid.	IES		
Colou		:	amber			
Odou	r	:	Amine			
Odou	r Threshold	:	No data avail	able		
рН		:	6.89 (22.6 °C Method: pH E			
Meltir	ng point/range	:	Not applicable	е		
Freez	ing point		No data avail	able		
Boilin	g point/boiling range	:	No data avail	able		
Flash	point	:	> 100 °C			
			Method: close	ed cup		





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Evapo	pration rate	:	No data available)
Flamm	nability (solid, gas)	:	Not applicable	
	explosion limit / Upper ability limit	:	No data available	9
	explosion limit / Lower ability limit	:	No data available	
Vapou	ır pressure	:	No data available)
Relativ	ve vapour density	:	No data available	
Relativ	ve density	:	No data available)
Densit	y	:	1.2045 g/cm3 (20 Method: Digital d	
Solubil Wa	ity(ies) ater solubility	:	No data available)
Auto-i	gnition temperature	:	No data available	9
Viscosi Vis	ity cosity, dynamic	:	42.3 mPa,s (20.	,
Funda	ive exercise		16.1 mPa,s (40.	1°C)
	sive properties	•	No	
	ing properties 0. STABILITY AND RE	: ^		rease (>5C) in temperature.
React Chem		:	Not classified as No decomposition Stable under nor Stable under reco	a reactivity hazard. n if stored and applied as directed. mal conditions. ommended storage conditions. e specially mentioned.
Incom	tions to avoid patible materials dous decomposition cts		and the presence	roducts depend upon temperature, air supply e of other materials. roducts can include and are not limited to:
Acute	1. TOXICOLOGICAL IN toxicity	NFO	RMATION	
<u>Produe</u> Acute	<u>cr:</u> oral toxicity	:	LD50 (Rat, female Method: OECD Te Remarks: Informa	
Acute	inhalation toxicity	:	LC50 (Rat, male a Exposure time: 4 Test atmosphere: Method: OECD Te	dust/mist





/ersion I.0	Revision Date: 04/18/2024	SDS Number:Date of last issue: -800080005328Date of first issue: 04/18/2024
		Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala tion toxicity Remarks: Information source: Internal study report
Acute	e dermal toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402
	<u>onents:</u> choline salt:	Remarks: Information source: Internal study report
	e 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 mal due to physical properties; higher temperatures may ge erate vapor levels sufficient to cause irritation and other effects. Prolonged excessive exposure to dust may cause adverse fects. Dust may cause irritation to upper respiratory tract (nose ar 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	e dermal toxicity	: LD50 (Rabbit, male and female): > 5,000 mg/kg Remarks: For similar active ingredient(s).
	am triisopropanolan	ne salt: : LD50 (Rat): > 5,000 mg/kg
Acute	inhalation toxicity	 Remarks: Vapors are unlikely due to physical properties. No adverse effects are anticipated from single exposure to dust. Excessive exposure may cause irritation to upper respirator tract (nose and throat).
		LC50 (Rat): > 0.07 mg/l Exposure time: 4 h Test atmosphere: dust/mist Symptoms: The LC50 value is greater than the Maximum A tainable Concentration., No deaths occurred at this concent tion. Assessment: The substance or mixture has no acute inhala tion toxicity
Acute	e dermal toxicity	 LD50 (Rabbit, male and female): > 2,000 mg/kg Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute derma toxicity

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Propylene glyco			0080005328	Date of last issue: - Date of first issue: 04/18/2024
	ol:			
Acute oral toxicit		:	LD50 (Rat): > 20,	000 mg/kg
Acute inhalation	toxicity	:	Assessment: The tion toxicity	h : dust/mist eaths occurred at this concentration. e substance or mixture has no acute inhal ay cause irritation of upper respiratory tra
Acute dermal to	xicity	:		2,000 mg/kg eaths occurred at this concentration. substance or mixture has no acute derm
1,1',1'-nitrilotrip Acute oral toxicit	rilotripropan-2-ol: al toxicity : LD50 (Rat): 4,000 mg/kg			
Acute inhalation	toxicity	:	rated atmosphere	eaths occurred following exposure to a sa
Acute dermal to	xicity	:	LD50 (Rabbit): >	5,000 mg/kg
Skin corrosion/i Product:	rritation			
Species		:	Rabbit	
Method		:	OECD Test Guide	eline 404
Result		:	No skin irritation	
Remarks		:	Information sourc	e: Internal study report
<u>Components:</u> 2,4-D choline sa	llt:			
Result		:	No skin irritation	
Propylene glyco	ol:			
Species		:	Rabbit	
Result		:	No skin irritation	
1,1',1'-nitrilotrip Result	ropan-2-ol:		No skin irritation	
Serious eye dan	nage/eve irrita	tio		
Product:	<u>.</u>			
Species		:	Rabbit	
Result		:	Eye irritation	
		:	OECD Test Guide	eline 405 e: Internal study report
Method			mormation Sourc	o. memai study tepott
Method Remarks		-		
Method Remarks <u>Components:</u>	.14 -	-		
Method Remarks	lt:		Corrosive	

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rsion	Revision Date: 04/18/2024		0S Number: 0080005328	Date of last issue: - Date of first issue: 04/18/2024		
Propy	ene glycol:					
Specie		:	Rabbit			
	Result		No eye irritatio	n		
1.1'.1'	-nitrilotripropan-2-c	d:				
Resul		:	Eye irritation			
Respir <u>Produ</u>	atory or skin sensi	tisatio	n			
Test 1		:	Local lymph no	ode assav		
Specie		:	Mouse			
•	sment	:	The product is	a skin sensitiser, sub-category 1B.		
Metho	bd	:	OECD Test Gu			
Rema	rks	:	Information so	urce: Internal study report		
	<u>onents:</u> choline salt:					
•	sment		Does not caus	e skin sensitisation.		
Rema		:		allergic skin reactions when tested in guinea		
Roma		•	pigs.	anorgio skill redotions when tested in guilled		
				strate the potential for contact allergy in mice		
Rema	rks	:	For respiratory sensitization: No relevant data found.			
	am triisopropanola	nine s				
	sment	:		a skin sensitiser, sub-category 1B.		
Rema	rks	:	Has caused all	ergic skin reactions when tested in guinea pi		
Rema	rks	:	For respiratory			
D			No relevant da	ta found.		
	lene glycol:		h			
Specie		:	human	a alvin consitiontion		
Asses	sment	÷	Does not caus	e skin sensitisation.		
	-nitrilotripropan-2-c	ol:	_			
	sment	:		e skin sensitisation.		
Rema	rks	:		allergic skin reactions when tested in guinea		
			pigs. Did not cause	allergic skin reactions when tested in humans		
-	-1 -			0		
Rema	rks	:	For respiratory No relevant da			
Germ	cell mutagenicity					
	<u>onents:</u>					
	choline salt:					
	cell mutagenicity - A	.s- :		ve ingredient(s)., 2,4-Dichlorophenoxyacetic		
sessm	nent		acid., In vitro g ative.	enetic toxicity studies were predominantly ne		
	am triisopropanola			tovicity studios were possible. The fallender		
	cell mutagenicity - A	5- :		toxicity studies were negative., The following		
sessm	IEIII			based on limited data and/or screening studie		
Dram	ono divoci		Animai genetic	toxicity studies were negative.		
	ene glycol:	<u> </u>	In vitro gonetia	tovioity ofudion wore possible. Animal service		
sessm	cell mutagenicity - A	.5		toxicity studies were negative., Animal generative.		
			TOXICITY STUDIES			

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ersion 0	Revision Date: 04/18/2024	SDS Number: 800080005328	Date of last issue: - Date of first issue: 04/18/2024
	-nitrilotripropan-2-ol: cell mutagenicity - As- nent		c toxicity studies were negative., Animal genetic s were negative.
<u>Comp</u>	nogenicity <u>onents:</u> choline salt:		
•	nogenicity - Assess-	cinogenicity ir epidemiologic 2,4-D exposu the epidemiol	tive ingredient(s)., There is no evidence of car- n laboratory animal toxicity studies. While some al studies report a positive association between re and cancer, a weight of evidence analysis of ogy data across studies reveals no indication uses cancer in humans.
Piclor	am triisopropanolamir	ne salt:	
	nogenicity - Assess-	: For similar ac	tive ingredient(s)., Picloram acid., Did not cause pratory animals.
	lene glycol: nogenicity - Assess-	: Did not cause	e cancer in laboratory animals.
Carcir ment	-nitrilotripropan-2-ol: nogenicity - Assess-	: Did not cause	e cancer in laboratory animals.
Comp	ductive toxicity <u>onents:</u> choline salt:		
Repro sessn	oductive toxicity - As- nent	acid., In labor ent animals c spring. For similar ac	tive ingredient(s)., 2,4-Dichlorophenoxyacetic atory animals, excessive doses toxic to the par- aused decreased weight and survival of off- tive ingredient(s)., 2,4-Dichlorophenoxyacetic en toxic to the fetus in laboratory animals at the mother.
Piclor	am triisopropanolamir	ne salt:	
	oductive toxicity - As-	: For similar ac ies, did not in Did not cause	tive ingredient(s)., Picloram acid., In animal stud terfere with reproduction. b birth defects or other effects in the fetus even a caused toxic effects in the mother.
Repro sessn		mal studies, o	dies, did not interfere with reproduction., In ani- lid not interfere with fertility. e birth defects or any other fetal effects in labora
	-nitrilotripropan-2-ol: oductive toxicity - As- nent		dies, did not interfere with reproduction. birth defects or any other fetal effects in labora
	- single exposure	tory arithmats.	
Produ Asses	<u>ct:</u> ssment	: Evaluation of an STOT-SE	available data suggests that this material is not toxicant.
	onents:		
	choline salt: ssment	: Evaluation of an STOT-SE	available data suggests that this material is not toxicant.
		10/2	-

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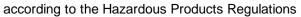


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	r lene glycol: ssment	: Evaluation of an STOT-SE	available data suggests that this material is not
	'-nitrilotripropan-2-ol: ssment		available data suggests that this material is no
	- repeated exposure	an STOT-SE	ioxicant.
Produ Asse	ict: ssment	: Evaluation of an STOT-RE	available data suggests that this material is no
Comp	ated dose toxicity <u>onents:</u> choline salt:		
Rema		2,4-Dichlorop In animals, ef gans: Liver. Kidney. Muscles.	tive ingredient(s). henoxyacetic acid. fects have been reported on the following or- in animals include: hal irritation.
Piclor Rema	a m triisopropanolam i arks		fects have been reported on the following or-
Rema		: In rare cases,	repeated excessive exposure to propylene gly e central nervous system effects.
1,1',1 [*] Rema	' -nitrilotripropan-2-ol: arks		ilable data, repeated exposures are not antici- e significant adverse effects.
Produ	ation toxicity I <u>ct:</u> I on physical properties	·	-
2,4-D	onents: choline salt: I on physical properties	, not likely to be an	aspiration hazard.
	am triisopropanolami I on physical properties		aspiration hazard.
	lene glycol: I on physical properties	not likely to be an	aspiration hazard.
	-nitrilotripropan-2-ol:	not likely to be an	aspiration hazard.
Ecoto		ORMATION	
<u>Produ</u> Toxic	<u>ict:</u> ity to fish	2,4-Dichlorop	similar active ingredient(s). henoxyacetic acid. hly toxic to aquatic organisms on an acute bas

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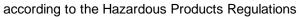


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			(LC50/EC50 betw species tested).	een 0.1 and 1 mg/L in the most sensitive
		-	Exposure time: 96 Test Type: semi-s Method: OECD Te	static test
	ty to daphnia and other ic invertebrates	-	Exposure time: 48 Test Type: static t Method: OECD Te	test
Toxici plants	ty to algae/aquatic	 	mg/l Exposure time: 72 Test Type: static t Method: OECD Te	test
			EC50 (Lemna gibl Exposure time: 14 Remarks: For sim	4 d
Toxici ganisr	ty to soil dwelling or- ns		LC50 (Eisenia feti Exposure time: 14	ida (earthworms)): > 1,000 mg/kg 4 d
Toxici isms	ty to terrestrial organ-		Remarks: As proc Material is slightly tween 501 and 20	toxic to birds on an acute basis (LD50 be-
			oral LD50 (Colinus bodyweight.	s virginianus (Bobwhite quail)): 1247 mg/kg
			contact LD50 (Api Exposure time: 48	is mellifera (bees)): > 200 μg/bee 3 h
- /	· · · · /		oral LD50 (Apis m Exposure time: 48	nellifera (bees)): 190.6 μg/bee 3 h
	xicology Assessment aquatic toxicity	: `	Very toxic to aqua	atic life.
Chron	ic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
2,4-D (onents: choline salt:			n
Toxici	ty to fish		Material is highly t	ilar active ingredient(s). toxic to aquatic organisms on an acute basi reen 0.1 and 1 mg/L in the most sensitive
			Exposure time: 96 Test Type: static t	





Vers 1.0	ion	Revision Date: 04/18/2024			ate of last issue: - ate of first issue: 04/18/2024
		v to daphnia and other invertebrates	:	LC50 (stonefly Pteror Exposure time: 96 h Test Type: static test	narcys californica): 1.6 - 15 mg/l
	Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchne mg/l Exposure time: 96 h Test Type: static test Remarks: For similar	
				EC50 (Lemna gibba): Exposure time: 14 d Remarks: For similar	-
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Pimephales p End point: growth Exposure time: 32 d	promelas (fathead minnow)): 63.4 mg/l
	aquatic	v to daphnia and other invertebrates ic toxicity)	:	End point: number of Exposure time: 21 d	na (Water flea)): 79 mg/l offspring n refers to the main component.
	Toxicity isms	v to terrestrial organ-	:	toxic to birds on an ac	active ingredient(s)., Material is slightly cute basis (LD50 between 501 and 2000 ractically non-toxic to birds on a dietary opm).
				dietary LC50 (Colinus mg/kg diet. Remarks: For similar	s virginianus (Bobwhite quail)): > 5620 active ingredient(s).
				oral LD50 (Anas platy bodyweight. Remarks: For similar	vrhynchos (Mallard duck)): > 500 mg/kg active ingredient(s).
				oral LD50 (Apis mellif Remarks: For similar	fera (bees)): 94 micrograms/bee active ingredient(s).
		cology Assessment aquatic toxicity	:	Very toxic to aquatic	life.
I		m triisopropanolamin / to fish	ie si :	Remarks: Based on in Material is highly toxic	nformation for a similar material: c to aquatic organisms on an acute basis i 0.1 and 1 mg/L in the most sensitive
				LC50 (Oncorhynchus Exposure time: 96 h Test Type: static test	mykiss (rainbow trout)): 51 mg/l
		v to daphnia and other invertebrates	:	LC50 (Daphnia magn Exposure time: 48 h Test Type: static test	a (Water flea)): 125 mg/l
	Toxicity plants	v to algae/aquatic	:	ErC50 (Myriophyllum Exposure time: 14 d	spicatum): 0.558 mg/l





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			Remarks: For sim	ilar material(s):
			NOEC (Myriophyll Exposure time: 14 Remarks: For sim	
M-Fa icity)	actor (Acute aquatic tox-	:	1	
	city to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 28	es promelas (fathead minnow)): 7.19 mg/l 3 d
toxici		:	10	
	e aquatic toxicity	:	Very toxic to aqua	atic life.
Chro	nic aquatic toxicity	:	Harmful to aquation	c life with long lasting effects.
Prony	/lene glycol:		Very toxic to aqua	atic life with long lasting effects.
	bity to fish	:	LC50 (Oncorhync Exposure time: 96 Test Type: static t Method: OECD Te	test
	tity to daphnia and other tic invertebrates	:		nia dubia (water flea)): 18,340 mg/l 3 h test
Toxic plant:	sity to algae/aquatic s	:	ErC50 (Pseudokir 19,000 mg/l End point: Growth Exposure time: 96 Method: OECD Te	3 h
aqua	city to daphnia and other tic invertebrates onic toxicity)	:	NOEC (Ceriodaph End point: numbe Exposure time: 7 Test Type: semi-s	d
Toxic	city to microorganisms	:	NOEC (Pseudomo Exposure time: 18	onas putida): > 20,000 mg/l 3 h
	' -nitrilotripropan-2-ol: sity to fish	:		Il is practically non-toxic to aquatic organ- basis (LC50/EC50/EL50/LL50 >100 mg/L in e species tested).
			LC50 (Leuciscus i Exposure time: 96 Test Type: static t Method: DIN 384	test
	city to daphnia and other tic invertebrates	:	Exposure time: 48 Test Type: static t	

according to the Hazardous Products Regulations



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Toxici plants	ty to algae/aquatic	:	End point: Growth Exposure time: 72 Test Type: static	2 h
Toxici	ty to microorganisms	:	EC10 (activated s Exposure time: 30	sludge): > 1,195 mg/l
<u>Comp</u> 2,4-D	t ence and degradabili <u>onents:</u> choline salt: gradability	ty :	Remarks: For sim Biodegradation ur	nilar active ingredient(s). Inder aerobic static laboratory conditions is IOD28/ThOD > 40%).
Biode	am triisopropanolamir gradability	ne s :	Result: Not readily Remarks: For sim Picloram. Based on stringer be considered as sults do not neces gradable under er Biodegradation m presence of oxygo	ilar active ingredient(s). Int OECD test guidelines, this material cannot readily biodegradable; however, these re- ssarily mean that the material is not biode- nvironmental conditions. ay occur under aerobic conditions (in the
	Propylene glycol: Biodegradability	:	aerobic Result: Readily bi Biodegradation: 4 Exposure time: 28 Method: OECD To Remarks: 10-day	81 % 3 d est Guideline 301F or Equivalent
	emical Oxygen De- (BOD)	:	69.000 % Incubation time: 5	ō d
			70.000 % Incubation time: 1	0 d
			86.000 % Incubation time: 2	20 d
	ical Oxygen Demand	:	1.53 kg/kg	
(COD ThOD		:	1.68 kg/kg	
Photo	degradation	:	Rate constant: 1.2 Method: Estimate	

according to the Hazardous Products Regulations



ersion D	Revision Date: 04/18/2024		Number: 80005328	Date of last issue: - Date of first issue: 04/18/2024
1,1',1'-nitrilotripropan-2-ol: Biodegradability		d B C N	itions is high (BC liodegradation ra limation.	radation under aerobic static laboratory con- DD20 or BOD28/ThOD > 40%). ate may increase in soil and/or water with ac adily biodegradable according to OECD/EEC
		R B E N	erobic esult: Not biode iodegradation: xposure time: 28 lethod: OECD To emarks: 10-day	0 % 8 d est Guideline 301F or Equivalent
ThOD)	: 2	.35 kg/kg	
Photo	Photodegradation		est Type: Half-lif ensitiser: OH ra tate constant: 1.2 fethod: Estimate	2E-10 cm3/s
<u>Comp</u>	cumulative potential <u>onents:</u> choline salt:			
Partiti tanol/	on coefficient: n-oc- water			nilar active ingredient(s). potential is low (BCF < 100 or Log Pow < 3
Piclor	am triisopropanolamiı	ne salt	:	
Partiti tanol/v	on coefficient: n-oc- water	F F E	or similar active Picloram. Bioconcentration	a available for this product. ingredient(s). potential is moderate (BCF between 100 ar between 3 and 5).
	lene glycol: cumulation		ioconcentration 1ethod: Estimate	factor (BCF): 0.09 ed.
tanol/		N F	og Pow: -1.07 /lethod: Measure Remarks: Biocon Pow < 3).	ed centration potential is low (BCF < 100 or Lo
	-nitrilotripropan-2-ol: cumulation	B E	pecies: Fish lioconcentration xposure time: 42 lethod: Measure	
Partiti tanol/v	on coefficient: n-oc- water	N F	og Pow: -0.015 (//ethod: Measure Remarks: Biocon Pow < 3).	
Baland Partiti tanol/	on coefficient: n-oc-		,	evant data found.

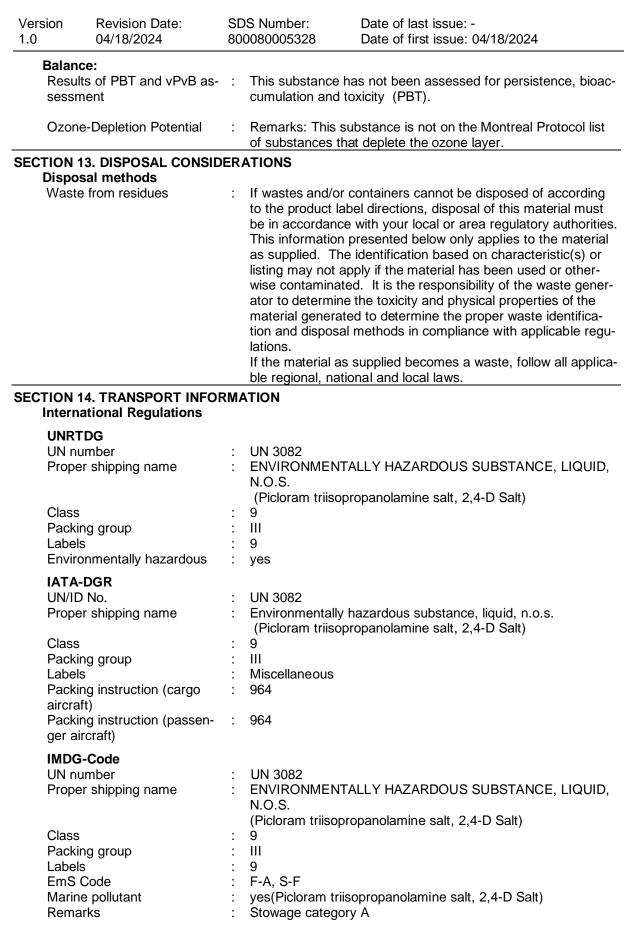
according to the Hazardous Products Regulations



Version 1.0	Revision Date: 04/18/2024		9S Number: 0080005328	Date of last issue: - Date of first issue: 04/18/2024
	ity in soil			
	onents:			
	choline salt:		Kaa: 00 400	
	bution among environ-	:	Koc: 20 - 136	
menta	al compartments		Method: Measure	
				ilar active ingredient(s).
Piclor	am triisanrananalamin	0.0		lity in soil is high (Koc between 50 and 150).
	am triisopropanolamin bution among environ-	:		ilar active ingredient(s).
	al compartments	•	Picloram.	
menta	ai compartments			lity in soil is very high (Koc between 0 and
			50).	
Pronv	lene glycol:		50).	
	bution among environ-	:	Koc: < 1	
	al compartments	•	Method: Estimate	d
mente	al comparanento			s very low Henry's constant, volatilization
				es of water or moist soil is not expected to be
			an important fate	
				lity in soil is very high (Koc between 0 and
			50).	
1,1',1'	-nitrilotripropan-2-ol:		,	
	oution among environ-	:	Koc: 10	
	al compartments		Method: Estimate	d.
			Remarks: Potentia	al for mobility in soil is very high (Koc be-
			tween 0 and 50).	
Balan	ce:			
	oution among environ-	:	Remarks: No relev	vant data found.
	al compartments			
	adverse effects			
	onents:			
	choline salt:		This a hata and is	and a second to be a second to be a second
	Its of PBT and vPvB as-	:		not considered to be persistent, bioaccumu-
sessn	nent			BT). This substance is not considered to be
			very persistent an	d very bioaccumulating (vPvB).
Ozon	e-Depletion Potential	:	Remarks: This sul	bstance is not on the Montreal Protocol list
02011		•		t deplete the ozone layer.
Piclor	am triisopropanolamin	e s		
	ts of PBT and vPvB as-			as not been assessed for persistence, bioac-
sessn			cumulation and to	
				- • •
Ozon	e-Depletion Potential	:	Remarks: This sul	bstance is not on the Montreal Protocol list
			of substances that	t deplete the ozone layer.
	lene glycol:			
Resul	ts of PBT and vPvB as-	:		not considered to be persistent, bioaccumu-
sessn	nent			BT). This substance is not considered to be
			very persistent an	d very bioaccumulating (vPvB).
~			D	
Ozon	e-Depletion Potential	:		bstance is not on the Montreal Protocol list
A A! A!	nitrilatringenen 0 ch		of substances that	t deplete the ozone layer.
	-nitrilotripropan-2-ol:		This substance is	not considered to be persistent biogeneric
	Its of PBT and vPvB as-	:		not considered to be persistent, bioaccumu-
sessn				BT). This substance is not considered to be
			very persistent an	d very bioaccumulating (vPvB).
Ωτορ	e-Depletion Potential	•	Remarks: This sul	bstance is not on the Montreal Protocol list
02011		•		t deplete the ozone layer.

according to the Hazardous Products Regulations

GRAZON[™] XC Herbicide



according to the Hazardous Products Regulations



GRAZON™ XC Herbicide

	Revision Date: 04/18/2024		S Number: 0080005328	Date of last issue: - Date of first issue: 04/18/2024
Not appli	rt in bulk accordir cable for product a Regulations	-		POL 73/78 and the IBC Code
TDG				
UN num	UN number		UN 3082	
Proper shipping name		:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID,
Class		:	9	
Packing	group	:	111	
Labels	5 1	:	9	
ERG Co	de	:	171	
Marine p	pollutant	:	yes(Picloram tr	iisopropanolamine salt, 2,4-D Salt)

. .

Further information

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

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

Special precautions for user

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

SECTION 15. REGULATORY INFORMATION

The components of this produ	ct	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 : 31642

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 EYE IRRITANT

This product is toxic to: Small mammals Birds Aquatic organisms Non-target terrestrial plants

according to the Hazardous Products Regulations



GRAZON™ XC Herbicide

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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):
Dow IHG / TWA	:	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.

Revision Date	:	04/18/2024
Date format	:	mm/dd/yyyy

Product code: GF-2766

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.

CA / 6N