

HECTOR® MAX, WG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	19.07.2023	800080000398	Date of first issue: 19.07.2023

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 Georgia and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : HECTOR® MAX, WG

Manufacturer or supplier's details

COMPANY IDENTIFICATION Manufacturer/importer :	Co Ro CH Sw	rteva Agriscience International S.a.r.I. ute de Suisse 160 I-1290 Versoix itzerland
E-mail address	SI	DS@corteva.com
Emergency telephone num- ber	: +	32 3 575 55 55
Recommended use of the che	nica	l and restrictions on use
Recommended use	: H	lerbicide
Restrictions on use	: D u	o not use product for anything outside of the above specified ses.

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation)	:	Category 5
Eye irritation	:	Category 2A
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 1

GHS-Labelling



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Hazai	rd pictograms		
Signa	l word	: Warning	
Hazai	rd statements	: H319 Cause H410 Very to	s serious eye irritation. xic to aquatic life with long lasting effects.
Preca	utionary statements	Prevention: P201 Obtain P260 Do not P273 Avoid r P280 Wear p tion/ face pro	special instructions before use. breathe dust. elease to the environment. protective gloves/ protective clothing/ eye protec- tection.
		Response: P304 + P312 you feel unw P308 + P313 tention. P391 Collect	IF INHALED: Call a POISON CENTER/ doctor if ell. IF exposed or concerned: Get medical advice/ at- spillage.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture :	Mixture
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Components

Chemical name	CAS-No.	Classification	MAC value mg/m3 / TSEL value	Concentration (% w/w)
dicamba (ISO)	1918-00-9	Acute Tox.4; H302 Acute Tox.4; H332 Acute Tox.5; H313 Eye Dam.1; H318 Aquatic Acute3; H402 Aquatic Chronic3; H412	MPC-STEL: 1 mg/m3 Class 2 - Highly dangerous, Sub- stances which re- quire special skin and eye protec- tion Data Source: RU OEL	68,38
Nicosulfuron	111991-09-4	Aquatic Acute1; H400 Aquatic Chronic1; H410	No data available	9,15



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sodium	hydroxide	1310-73-2	Met. Corr.1; H290 Skin Corr.1A; H314 Eye Dam.1; H318	MPC-STEL: 0,5 mg/m3 Class 2 - Highly dangerous, Sub- stances which re- quire special skin and eye protec- tion Data Source: RU OEL	>= 3 - < 5
Barden	Clay	1332-58-7		MPC-TWA: 8 mg/m3 aerosols of pre- dominantly fibro- genic action, Class 3 - Moder- ately dangerous Data Source: RU OEL	>= 1 - < 3
Rimsulf	uron	122931-48-0	Aquatic Acute1; H400 Aquatic Chronic1; H410	No data available	2,3
Benzen decyl-, ł	esulfonic acid, do- branched, sodium salt	69227-09-4	Acute Tox.4; H302 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Acute1; H400 Aquatic Chronic2; H411	No data available	>= 0,25 - < 0,3

For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

General advice	Never give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
If inhaled	Move to fresh air. Artificial respiration and/or oxygen may be necessary. Consult a physician after significant exposure.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physi- cian.



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In case of eye contact If swallowed Most important symptoms and effects, both acute and delayed Notes to physician		Wash contamina : If easy to do, ren Hold eye open a 20 minutes.	ated clothing before re-use. nove contact lens, if worn. nd rinse slowly and gently with water for 15-
		: Obtain medical a DO NOT induce cian or poison co If victim is consc Rinse mouth with	attention. vomiting unless directed to do so by a physi- ontrol center. ious: n water.
		: No cases of hum of experimental i	nan intoxication are known and the symptoms ntoxication are not known.
		: Activated charco Note: To prepare g of activated ch In case of ingest lavage under qua There is no spec Treat symptoma	al may be beneficial. e activated charcoal slurry, mix thoroughly 50 arcoal in 400 ml (about 2 cups) water. ion, the stomach should be emptied by gastric alified medical supervision. ific antidote available. tically.

5. FIREFIGHTING MEASURES

Flammable properties

Flash point Upper explosion limit / Upper flammability limit	:	Not applicable No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flammability (solid, gas)	:	Does not sustain combustion.
Suitable extinguishing media	:	Water spray Alcohol-resistant foam
Unsuitable extinguishing me- dia	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Nitrogen oxides (NOx) Carbon oxides
Specific extinguishing meth- ods	:	Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use water spray to cool unopened containers.
Further information	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES



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Perso	nal precautions, protec-	:	Avoid dust format	ion.	
tive eo	quipment and emer-		Use appropriate s	safety equipment. For additional information,	
gency	procedures		refer to Section 8	, Exposure Controls and Personal Protection	
Environmental precautions Methods and materials for containment and cleaning up		 If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages can not be contained. 			
		:	Local or national posal of this mate employed in. Pick up and arran Recovered mater The vent must pre with spilled mater pressurization of t Sweep up and sh Keep in suitable, Sweep up or vacu tainer for disposa See Section 13, E mation.	regulations may apply to releases and dis- rial, as well as those materials and items age disposal without creating dust. ial should be stored in a vented container. event the ingress of water as further reaction ials can take place which could lead to over- the container. ovel. closed containers for disposal. uum up spillage and collect in suitable con- l. Disposal Considerations, for additional infor-	

Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice
		Smoking, eating and drinking should be prohibited in the appli- cation area.
		Take care to prevent spills, waste and minimize release to the environment.
		Use appropriate safety equipment. For additional information, refer to Section 8. Exposure Controls and Personal Protection.
Conditions for safe storage	:	Store in a closed container. Keep in properly labelled containers.
		Store in accordance with the particular national regulations.
Materials to avoid	:	Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.

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
dicamba (ISO)	1918-00-9	MPC-STEL (aerosol)	1 mg/m3	RU OEL



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		Further inform which require	nation: Class 2 - I special skin and	Highly dangerous, Su	ubstances
Quart	Z	14808-60-7	MPC-TWA (Aerosol - to- tal mass)	1 mg/m3	RU OEL
		Further inform Class 3 - Mod	hation: aerosols of lerately dangerou	of predominantly fibr	ogenic action,
			MPC-STEL (Aerosol - to- tal mass)	3 mg/m3	RU OEL
		Further inform	nation: aerosols o	of predominantly fibro	ogenic action,
			TWA (Res-	0,1 mg/m3	2004/37/EC
sodiu	m hydroxide	1310-73-2	MPC-STEL (aerosol)	0,5 mg/m3 (solution of so- dium hydroxide)	RU OEL
		Further inform which require	nation: Class 2 - I special skin and	Highly dangerous, Su	ubstances
Cristo	balite	14464-46-1	MPC-TWA (Aerosol - to- tal mass)	1 mg/m3	RU OEL
		Further inform Class 3 - Mod	nation: aerosols c	of predominantly fibro	ogenic action,
			MPC-STEL (Aerosol - to- tal mass)	3 mg/m3	RU OEL
		Further inform Class 3 - Mod	hation: aerosols of lerately dangerou	of predominantly fibro	ogenic action,
			TWA (Res- pirable dust)	0,1 mg/m3	2004/37/EC
Barde	en Clay	1332-58-7	MPC-TWA (aerosol)	8 mg/m3	RU OEL
		Further inform Class 3 - Mod	hation: aerosols of lerately dangerou	of predominantly fibro	ogenic action,
			TWA (Res- pirable dust)	0,1 mg/m3	2004/37/EC
Engir	neering measures	: Use only with	adequate ventil	ation.	
Perso i Respi	nal protective equipment iratory protection	nt : Where there applicable lim dust/mist cari	is potential for ai hits, wear approv tridge	rborne exposures in ed respiratory protec	excess of tion with
Hand	protection		linger		
Re	emarks	: Use gloves c preferred glov ral rubber ("la trile" or "NBR ("EVAL"). Po selection of a duration of us all relevant w Other chemic	hemically resista ve barrier materia atex"). Neoprene "). Polyethylene. lyvinyl chloride (" a specific glove fo se in a workplace orkplace factors cals which may b	nt to this material. Ex als include: Butyl rub . Nitrile/butadiene rut Ethyl vinyl alcohol la 'PVC" or "vinyl"). NO or a particular applica e should also take int such as, but not limit e handled, physical	kamples of ber. Natu- ober ("ni- aminate TICE: The tition and o account ted to:



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		requirements (tection), potent as the instructi plier.	cut/puncture protection, dexterity, thermal pro- ial body reactions to glove materials, as well ons/specifications provided by the glove sup-				
Eye p	protection	: Wear safety gla Additionally we face contact du with this mater	asses with side shields. ear a face shield where the possibility exists for ue to splashing, spraying or airborne contact ial.				
Skin and body protection		: Wear clean, body-covering clothing.					
Prote	ctive measures	: Follow manufa PPE. If no suc gent and hot w other laundry.	cturer's instructions for cleaning/maintaining h instructions for washables exist, use deter- ater. Keep and wash PPE separately from				
		Discard clothin been drenched not reuse them Use this produ	g and other absorbent materials that have l or heavily contaminated with this product. Do h. ct in accordance with its label				
Hygie	ene measures	: Avoid contact v Wash hands th and before eat using the toilet Avoid breathing	with skin, eyes and clothing. horoughly with soap and water after handling ing, drinking, chewing gum, using tobacco, or g dust or vapour.				

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	extruded granules
Colour	:	light brown, light tan
Odour	:	slight, sweet
рН	:	6,3 Concentration: 10 g/L Method: CIPAC MT 75.3
Melting point/freezing point	:	No data available
Flash point	:	Not applicable
Flammability (solid, gas)	:	Does not sustain combustion.
Self-ignition	:	not auto-flammable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Density	:	Not applicable
Bulk density Solubility(ies)	:	880 kg/m3



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V	Vater solubility	:	dispersible	
Visco \	osity /iscosity, dynamic	:	No data available	
Exp	losive properties	:	Not explosive	
Oxic	lizing properties	:	The substance or	mixture is not classified as oxidizing.
10. STAB	ILITY AND REACTIVITY			
Rea Che	ctivity mical stability	:	Not classified as a No decomposition Stable under norr	a reactivity hazard. n if stored and applied as directed. nal conditions.
Post	sibility of hazardous reac- S	:	Stable under reco No hazards to be None known.	mmended storage conditions. specially mentioned.
Con Inco	ditions to avoid mpatible materials	:	None known. Strong acids Strong bases	
Haz proc	ardous decomposition lucts	:	Carbon oxides	
11. TOXIO	COLOGICAL INFORMATI	ON		

Acute toxicity

Product:	
Acute oral toxicity :	LD50 (Rat, female): > 5.000 mg/kg Method: OECD Test Guideline 425 Symptoms: No deaths occurred at this concentration.
Acute inhalation toxicity :	LC50 (Rat): > 5,4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity :	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402 Symptoms: No deaths occurred at this concentration.
Components:	
dicamba (ISO):	
Acute oral toxicity :	LD50 (Rat): 1.040 - 1.707 mg/kg
Acute inhalation toxicity :	Remarks: Prolonged excessive exposure to dust may cause adverse effects. Dust may cause irritation of the upper respiratory tract (nose and throat) and lungs.



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			LC50 (Rat): > 9,6 Exposure time: 4 Test atmosphere:	mg/l h dust/mist
			LC50 (Rat): 4,46 Exposure time: 4 Test atmosphere:	mg/l h dust/mist
Acute	dermal toxicity	:	LD50 (Rabbit): > 2	2.000 mg/kg
Nicosu	Ilfuron:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0 Method: US EPA	00 mg/kg Test Guideline OPP 81-1
Acute	inhalation toxicity	:	LC50 (Rat): > 5,9 Exposure time: 4 Test atmosphere: Method: US EPA Assessment: The tion toxicity	mg/l h dust/mist Test Guideline OPP 81-3 substance or mixture has no acute inhala-
Acute	dermal toxicity	:	LD50 (Rat): > 2.0 Method: US EPA Assessment: The toxicity	00 mg/kg Test Guideline OPP 81-2 substance or mixture has no acute dermal
Barder	n Clay:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Rimsu	lfuron:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0 Method: Directive	00 mg/kg e 67/548/EEC, Annex V, B.1.
Acute	inhalation toxicity	:	LC50 (Rat): > 205 Exposure time: 4 Test atmosphere: Method: Directive Symptoms: No de Assessment: The tion toxicity	5,4 mg/l h dust/mist 67/548/EEC, Annex V, B.2. eaths occurred at this concentration. substance or mixture has no acute inhala-
Acute	dermal toxicity	:	LD50 (Rabbit): > 2 Method: Directive Symptoms: No de Assessment: The toxicity	2.000 mg/kg 67/548/EEC, Annex V, B.3. eaths occurred at this concentration. substance or mixture has no acute dermal
Benzei	nesulfonic acid, dode	cyl-	, branched, sodiu	m salt:
Acute	oral toxicity	:	Remarks: Low tox Small amounts sw handling operatio swallowing larger	kicity if swallowed. wallowed incidentally as a result of normal ns are not likely to cause injury; however, amounts may cause injury.



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			LD50 (Rat): > 1.0 Method: Estimate	00 mg/kg d.
Acute	dermal toxicity	:	Remarks: Prolong sorption of harmfu	ged skin contact is unlikely to result in ab- Il amounts.
			LD50 (Rabbit): > Method: Estimate	1.000 mg/kg d.
dicaml	ba (ISO):			
Acute	oral toxicity	:	LD50 (Rat): 1.040) - 1.707 mg/kg
Acute	inhalation toxicity	:	Remarks: Prolong adverse effects. Dust may cause in and throat) and lu	rritation of the upper respiratory tract (nose ngs.
			LC50 (Rat): > 9,6 Exposure time: 4 Test atmosphere:	mg/l h dust/mist
			LC50 (Rat): 4,46 Exposure time: 4 Test atmosphere:	mg/l h dust/mist
Acute	dermal toxicity	:	LD50 (Rabbit): > 2	2.000 mg/kg
Nicosu	ulfuron:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0 Method: US EPA	00 mg/kg Test Guideline OPP 81-1
Acute	inhalation toxicity	:	LC50 (Rat): > 5,9 Exposure time: 4 Test atmosphere: Method: US EPA Assessment: The tion toxicity	mg/l h dust/mist Test Guideline OPP 81-3 substance or mixture has no acute inhala-
Acute	dermal toxicity	:	LD50 (Rat): > 2.0 Method: US EPA Assessment: The toxicity	00 mg/kg Test Guideline OPP 81-2 substance or mixture has no acute dermal
Rimsu	lfuron:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0 Method: Directive	00 mg/kg 67/548/EEC, Annex V, B.1.
Acute	inhalation toxicity	:	LC50 (Rat): > 205 Exposure time: 4 Test atmosphere: Method: Directive Symptoms: No de	5,4 mg/l h dust/mist 67/548/EEC, Annex V, B.2. eaths occurred at this concentration.



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		Assessment: tion toxicity	The substance or mixture has no acute inhala-
Acute	dermal toxicity	: LD50 (Rabbin Method: Dire Symptoms: N Assessment: toxicity	t): > 2.000 mg/kg ctive 67/548/EEC, Annex V, B.3. lo deaths occurred at this concentration. The substance or mixture has no acute dermal
Bonzo	nesulfonic acid mor	o-C11-13-brancho	d alkyl derive sodium salts:
Acute	oral toxicity	: LD50 (Rat, m	nale and female): 520 mg/kg
Acute	dermal toxicity	: LD50 (Rat, m Method: OEC Remarks: Fo	nale and female): > 1.000 - < 1.600 mg/kg CD Test Guideline 402 r similar material(s):
Skin c	orrosion/irritation		
Produ	ct:		
Speci	es	: Rabbit	
Metho	bd	: OECD Test C	Guideline 404
Resul	t	: No skin irritat	ion
<u>Comp</u>	onents:		
Nicos	ulfuron:		
Speci	es	: Rabbit	
Metho	od	: US EPA Test	t Guideline OPP 81-5
Resul		. NO SKITTITIDI	.011
sodiur	m hydroxide:		
Speci	es	: Rabbit	
Resul	t	: Causes seve	re burns.
Barde	n Clay:		
Speci	es	: Rabbit	
Resul	t	: No skin irritat	ion
Rimsu	Ilfuron:		
Speci	es	: Rabbit	
Metho	bd	: Directive 67/	548/EEC, Annex V, B.4.
Resul	τ	: INO SKIN IRRITA	lon
Benze	nesulfonic acid, dod	ecyl-, branched, so	odium salt:
Resul	t	: Skin irritation	
Nicos	ulfuron:		
Speci	es	: Rabbit	
Metho	bd	: US EPA Test	t Guideline OPP 81-5



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Resul	t	: No skin irrita	tion
Rimsu	Ilfuron:		
Speci	es	: Rabbit	
Metho	bd	: Directive 67/	548/EEC, Annex V, B.4.
Resul	t	: No skin irritat	tion
sodiur	n hydroxide:		
Speci	es	: Rabbit	
Resul	t	: Causes seve	re burns.
Benze	nesulfonic acid, mor	no-C11-13-branche	d alkyl derivs., sodium salts:
Speci	es	: Rabbit	
Resul	t	: Skin irritation	
Seriou	ıs eye damage/eye ir	ritation	
Produ	<u>ct:</u>		
Speci	es	: Rabbit	
Resul	t	: Eye irritation	
Metho	DO	: OECD Test (Juideline 405
Comp	onents:		
dicam	ba (ISO):		
Resul	t	: Corrosive	
Nicosu	ulfuron:		
Speci	es	: Rabbit	
Resul	t	: No eye irritat	ion
Metho	od	: US EPA Tes	t Guideline OPP 81-4
sodiur	n hydroxide:		
Speci	es	: Rabbit	
Resul	t	: Corrosive	
Barde	n Clay:		
Speci	es	: Rabbit	
Resul	t	: No eye irritat	ion
Rimsu	llfuron:		
Speci	es	: Rabbit	
Resul	t	: No eye irritat	ion
Metho	od	: Directive 67/	548/EEC, Annex V, B.5.
Benze	nesulfonic acid, dod	ecyl-, branched, so	odium salt:
Resul	t	: Corrosive	



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dicam	ha (ISO):		
Resul	t	: Corrosive	
NICOSI	ulturon:		
Speci	es	: Rabbit	
Resul	t	: No eye irritati	on Outidation ODD 04-4
Metho	Da	: US EPA Test	Guideline OPP 81-4
Rimsu	Ilfuron:		
Speci	es	: Rabbit	
Resul	t	: No eye irritati	on
Metho	od	: Directive 67/5	548/EEC, Annex V, B.5.
sodiur	n hydroxide:		
Speci	es	: Rabbit	
Resul	t	: Corrosive	
Benze	nesulfonic acid, mo	no-C11-13-branche	d alkyl derivs sodium salts:
Sneci		· Rabbit	
Resul	t	· Corrosive	
Metho	d d	: OECD Test G	Guideline 405
Produ Test T Speci Asses Metho	<u>ct:</u> Гуре es ssment od	: Maximisation : Guinea pig : Does not cau : OECD Test G	Test se skin sensitisation. Guideline 406
Comp	onents:		
dicam	ba (ISO):		
Rema	irks	: Did not cause pigs.	e allergic skin reactions when tested in guinea
Rema	ırks	: For respirator No relevant d	y sensitization: ata found.
Nicos	ulfuron:		
Toot 7		· Buebler Test	
Snaci	es es	· Guinea nia	
Metho	bd	: US EPA Test	Guideline OPP 81-6
Resul	t	: Did not cause	e sensitisation on laboratory animals.
sodiu	n hvdroxide:		
Sneci	es	· human	
Asses	ssment	: Does not cau	se skin sensitisation.
,		. 2000 not odd	



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Rimsulf	iuron:		
Test Tv		· Maximisation Test	
Specie	s	: Guinea pig	
Method	-	: OECD Test Guideline 406	
Result		: Does not cause skin sensitisation.	
Benzen	esulfonic acid, dode	yl-, branched, sodium salt:	
Remark	ks	 For skin sensitization: Did not cause allergic skin reactions when tested in guir pigs. 	iea
Remark	KS	: For respiratory sensitization: No relevant data found.	
dicamb	a (ISO):		
Remark	KS	: Did not cause allergic skin reactions when tested in guir pigs.	iea
Remark	KS	: For respiratory sensitization: No relevant data found.	
Nicosul	furon:		
Test Ty	/pe	: Buehler Test	
Species	S	: Guinea pig	
Method	1	: US EPA Test Guideline OPP 81-6	
Result		: Did not cause sensitisation on laboratory animals.	
Rimsulf	furon:		
Test Ty	pe	: Maximisation Test	
Specie	S	: Guinea pig	
Method	1	: OECD Test Guideline 406	
Result		Does not cause skin sensitisation.	
sodium	hydroxide:		
Specie	S	: numan	
Assess	ment	Does not cause skin sensitisation.	
Benzen	esulfonic acid, mono	C11-13-branched alkyl derivs., sodium salts:	
Test Ty	pe	: Maximisation Lest	
Specie	S	: Guinea pig	
ASSESS	ment	Dues not cause skin sensitisation.	
IVIETNOC		. OECD Test Guidelline 400	
Reman	~5	For similar material(s): Did not cause allergic skin reactions when tested in guir pigs.	iea
Remark	ks	: For respiratory sensitization: No relevant data found.	



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Germ	cell mutagenicity			
<u>Comp</u>	onents:			
dicam	ba (ISO):			
Germ sessn	cell mutagenicity - As- nent	:	In vitro genetic to and positive in ot were negative.	xicity studies were negative in some cases her cases., Animal genetic toxicity studies
Nicos	ulfuron:			
Germ sessn	cell mutagenicity - As- nent	:	In vitro genetic to	xicity studies were negative.
sodiu	m hydroxide:			
Germ sessn	cell mutagenicity - As- nent	:	In vitro genetic to	xicity studies were negative.
Rimsu	Ilfuron:			
Germ sessn	cell mutagenicity - As- nent	:	Tests on bacteria mutagenic effects effects.	I or mammalian cell cultures did not show s., Animal testing did not show any mutagenic
Bonzo	nosulfonic acid doda		branchad sodiu	m salt.
Germ	cell mutagenicity - As- nent	: :	In vitro genetic to not show genoto	xicity studies were negative., In vivo tests did kic effects
dicam	ha (ISO):			
Germ sessn	cell mutagenicity - As- nent	:	In vitro genetic to and positive in ot were negative.	xicity studies were negative in some cases her cases., Animal genetic toxicity studies
Nicos	ulfuron			
Germ	cell mutagenicity - As- nent	:	In vitro genetic to	xicity studies were negative.
Rimsu	Ilfuron:			
Germ sessn	cell mutagenicity - As- nent	:	Tests on bacteria mutagenic effects effects.	I or mammalian cell cultures did not show s., Animal testing did not show any mutagenic
sodiu	n hydroxide:			
Germ sessn	cell mutagenicity - As- nent	:	In vitro genetic to	xicity studies were negative.
Benze	nesulfonic acid, mono	-C1	1-13-branched al	kyl derivs., sodium salts:
Germ sessn	cell mutagenicity - As- nent	:	In vitro genetic to showed mutager	xicity studies were negative., In vivo tests ic effects



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Carcin	ogenicity			
Comp	onents:			
Nicosu	ulfuron:			
Carcir ment	nogenicity - Assess-	:	Did not cause ca	ncer in laboratory animals.
Barde	n Clay:			
Carcir	nogenicity - Assess-	:	Animal testing did	not show any carcinogenic effects.
mont			Available data su cancer.	ggest that the material is unlikely to cause
Rimsu	lfuron:			
Carcir ment	nogenicity - Assess-	:	Did not cause ca	ncer in laboratory animals.
Nicosu	ulfuron:			
Carcir ment	nogenicity - Assess-	:	Did not cause ca	ncer in laboratory animals.
Rimsu Carcir ment	Ifuron: nogenicity - Assess-	:	Did not cause ca	ncer in laboratory animals.
Repro	ductive toxicity			
Comp	onents:			
dicam	ba (ISO):			
Repro sessm	ductive toxicity - As- nent	:	In animal studies Did not cause bir	, did not interfere with reproduction. th defects in laboratory animals.
Nicosı	ulfuron:			
Repro sessm	ductive toxicity - As- nent	:	In animal studies mal studies, did r Did not show tera	, did not interfere with reproduction., In ani- not interfere with fertility. htogenic effects in animal experiments.
Rimsu	lfuron:			
Repro sessm	ductive toxicity - As- nent	:	In animal studies Development effe	, did not interfere with reproduction. ects were not observed in laboratory animals.
Benze	nesulfonic acid, dode	cyl-,	branched, sodiu	m salt:
Repro sessm	ductive toxicity - As- nent	:	In animal studies ies, did not interfe Has caused birth toxic to the mothe	, did not interfere with fertility., In animal stud- ere with reproduction. defects in laboratory animals only at doses er.
dicam	ba (ISO):			
Repro	ductive toxicity - As- nent	:	In animal studies Did not cause bir	, did not interfere with reproduction. th defects in laboratory animals.



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N P				
Repro Repro sessr	ulturon: oductive toxicity - As- nent	:	In animal studies, mal studies, did n Did not show tera	did not interfere with reproduction., In ani- ot interfere with fertility. togenic effects in animal experiments.
Rimsı	Ilfuron:			
Repro sessr	oductive toxicity - As- nent	:	In animal studies, Development effe	did not interfere with reproduction. cts were not observed in laboratory animals.
Benze	enesulfonic acid. monc	o-C1	1-13-branched alk	vl derivs sodium salts:
Reprosessr	oductive toxicity - As- nent	:	In animal studies, Did not cause birt tory animals.	did not interfere with reproduction. h defects or any other fetal effects in labora-
STOT	- single exposure			
<u>Produ</u>	ict:			
Asses	ssment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.
Comp	onents:			
Nicos	ulfuron:			
Asses	ssment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.
sodiu	m hvdroxide:			
Asses	ssment	:	Material is corrosi irritant; however, u may be expected.	ve. Material is not classified as a respiratory upper respiratory tract irritation or corrosivity
Barde	n Clav:			
Asses	ssment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.
Rimsı	ulfuron:			
Asses	ssment	:	Available data are specific target org	e inadequate to determine single exposure an toxicity.
Benze	enesulfonic acid, dode	cyl-	, branched, sodiur	n salt:
Asses	ssment	:	Available data are specific target org	e inadequate to determine single exposure an toxicity.
Nicos	ulfuron:			
Asses	ssment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.



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Dimen			
Asses	ssment	: Available dat specific targe	a are inadequate to determine single exposure t organ toxicity.
sodiu	n hydroxide:		
Asses	ssment	: Material is co irritant; howe may be expe	prrosive. Material is not classified as a respiratory ver, upper respiratory tract irritation or corrosivity cted.
Benze	nesulfonic acid, mor	o-C11-13-branche	d alkyl derivs., sodium salts:
Asses	ssment	: Available dat specific targe	a are inadequate to determine single exposure to organ toxicity.
STOT	- repeated exposure		
<u>Produ</u>	<u>ct:</u>		
Asses	ssment	: Evaluation of an STOT-RE	available data suggests that this material is not toxicant.
Repea	ted dose toxicity		
<u>Comp</u>	onents:		
dicam	ba (ISO):		
Rema	ırks	: Based on ava pated to caus	ailable data, repeated exposures are not antici- se significant adverse effects.
Nicos	ulfuron:		
Rema	ırks	: Based on ava pated to caus	ailable data, repeated exposures are not antici- se significant adverse effects.
sodiu	m hydroxide:		
Rema	ırks	: Based on ava pated to caus	ailable data, repeated exposures are not antici- se additional significant adverse effects.
Barde	n Clay:		
Rema	ırks	: Repeated ex silicosis, a pr	cessive exposure to crystalline silica may cause ogressive and disabling disease of the lungs.
Rimsu	llfuron:		
Rema	ırks	: In animals, e gans: Liver	ffects have been reported on the following or-
Benze	nesulfonic acid, dod	ecyl-, branched, so	odium salt:
Rema	ırks	: Based on available pated to cause	ailable data, repeated exposures are not antici- se significant adverse effects.



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dicami Rema	ba (ISO): rks	: Based or pated to	on available data, repeated exposures are not antici- cause significant adverse effects.			
Nicosu	Ilfuron:					
Rema	rks	: Based or pated to	on available data, repeated exposures are not antici- cause significant adverse effects.			
Rimsu	lfuron:					
Rema	rks	: In anima gans: Liver	als, effects have been reported on the following or-			
sodiun	n hydroxide:					
Rema	rks	: Based or pated to	on available data, repeated exposures are not antici- cause additional significant adverse effects.			
Benze	nesulfonic acid, mor	o-C11-13-brar	nched alkyl derivs., sodium salts:			
Rema	rks	: For simil In anima gans: spleen Heart Thymus. Liver	lar material(s): als, effects have been reported on the following or-			
Aspira	tion toxicity					
Produc	ct:					
Based	on physical properties	, not likely to be	e an aspiration hazard.			
Compo	onents:					
Nicosι Based	Nicosulfuron: Based on physical properties, not likely to be an aspiration hazard.					
sodiun Aspirat injury.	n hydroxide: ion into the lungs may	occur during ir	ngestion or vomiting, causing tissue damage or lung			
Barder Based	Barden Clay: Based on physical properties, not likely to be an aspiration hazard.					
Rimsu	lfuron:					

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



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Benzenesulfonic acid, dodecyl-, branched, sodium salt:

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

Nicosulfuron:

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

Rimsulfuron:

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

sodium hydroxide:

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

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., sodium salts:

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:	
Toxicity to algae/aquatic plants	 EbC50 (Pseudokirchneriella subcapitata (green algae)): 2,08 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes
	ErC50 (Pseudokirchneriella subcapitata (green algae)): 19,2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes
	EyC50 (Lemna gibba (duckweed)): 0,00769 mg/l Exposure time: 7 d Method: OECD Test Guideline 221 GLP: yes
Components:	
dicamba (ISO):	
Toxicity to fish	: Remarks: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).
	LC50 (Lepomis macrochirus (Bluegill sunfish)): 20 mg/l Exposure time: 48 h Method: Method Not Specified.



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			LC50 (Oncorhyncl Exposure time: 96 Method: Method N	hus mykiss (rainbow trout)): 28 - 153 mg/l i h lot Specified.
			LC50 (Lepomis ma Exposure time: 4 o Test Type: static to Method: Method N	acrochirus (Bluegill sunfish)): 135 - 180 mg/l d est lot Specified.
			LC50 (Cyprinodon mg/l Exposure time: 4 d Test Type: static t Method: Method N	n variegatus (sheepshead minnow)): > 180 d est lot Specified.
Toxic aqua	city to daphnia and other ttic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: Method N	agna (Water flea)): 110 - 750 mg/l 5 h lot Specified.
			LC50 (scud Gamn Exposure time: 4 d	narus sp.): 3,9 - 4,9 mg/l d
Toxic isms	city to terrestrial organ-	:	Remarks: Materia basis (LC50 > 500 birds on an acute	l is practically non-toxic to birds on a dietary 00 ppm)., Material is moderately toxic to basis (LD50 between 51 and 500 mg/kg).
			dietary LC50 (Coli mg/kg diet. Exposure time: 8 d	nus virginianus (Bobwhite quail)): > 10000 d
			oral LD50 (Colinus bodyweight. Exposure time: 14	s virginianus (Bobwhite quail)): 216 mg/kg d
			contact LD50 (Api Exposure time: 2 d	s mellifera (bees)): > 100 micrograms/bee d
			oral LD50 (Apis m Exposure time: 2 d	ellifera (bees)): > 100 micrograms/bee d
Nicos	sulfuron:			
Toxi	city to fish	:	Remarks: Materia an acute basis (LC species).	l is very highly toxic to aquatic organisms on C50/EC50 <0.1 mg/L in the most sensitive
			LC50 (Oncorhyncl Exposure time: 96 Test Type: static to Method: US EPA GLP: yes	hus mykiss (rainbow trout)): > 1.000 mg/l 5 h est Test Guideline OPP 72-1
Toxic aqua	city to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: static t	agna (Water flea)): > 1.000 mg/l s h est



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			Method: US EPA	Test Guideline OPP 72-2
			NOEC (Daphnia n	nagna (Water flea)): 43 mg/l
Toxici plants	ity to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te GLP: yes	chneriella subcapitata (green algae)): 71,17 ? h est Guideline 201
			EbC50 (Anabaena Exposure time: 96 Method: Directive GLP: yes	a flos-aquae (cyanobacteria)): 41,8 mg/l 5 h 67/548/EEC, Annex V, C.3.
			ErC50 (Anabaena Exposure time: 96 Method: Directive GLP: yes	flos-aquae (cyanobacteria)): 59,8 mg/l 5 h 67/548/EEC, Annex V, C.3.
			EC50 (Lemna gibl Exposure time: 7 o Method: US EPA GLP: yes	ba (duckweed)): 0,0032 mg/l d Test Guideline OPP 122-2 & 123-2
M-Fac	ctor (Acute aquatic tox-	:	100	
Toxici icity)	ity to fish (Chronic tox-	:	NOEC (Oncorhynd Exposure time: 90 Test Type: Early L Method: OECD Te GLP: yes	chus mykiss (rainbow trout)): 24 mg/l d .ife-Stage est Guideline 210
Toxici aquat (Chro	ity to daphnia and other ic invertebrates nic toxicity)	:	NOEC (Daphnia n Exposure time: 21 Test Type: Static- Method: OECD Te GLP: yes	nagna (Water flea)): 43 mg/l d Renewal est Guideline 202
M-Fac	ctor (Chronic aquatic	:	10	
Toxici isms	ity to terrestrial organ-	:	oral LD50 (Colinus mg/kg Method: US EPA GLP: yes	s virginianus (Bobwhite quail)): > 2.250 Test Guideline OPP 71-1
			dietary LC50 (Ana mg/kg Exposure time: 5 o Method: US EPA GLP: yes	is platyrhynchos (Mallard duck)): > 5.620 d Test Guideline OPP 71-2
			oral LD50 (Apis m Exposure time: 48	ellifera (bees)): 0,050 mg/kg s h



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			Method: OECD Te GLP: yes	est Guideline 213
			oral LD50 (Apis m Exposure time: 48 Method: OECD Te GLP: yes	ellifera (bees)): > 100 mg/kg h est Guideline 214
Ecotox	icology Assessment			
Acute a	aquatic toxicity	:	Very toxic to aqua	tic life.
Chroni	c aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
Rimsul Toxicit	furon: y to fish	:	LC50 (Oncorhyncl Exposure time: 96 Method: OECD Te GLP: yes	nus mykiss (rainbow trout)): > 390 mg/l h est Guideline 203
Toxicit aquatic	y to daphnia and other invertebrates	:	EC50 (Daphnia (w Exposure time: 48 Test Type: static to Method: OECD Te GLP: yes	rater flea)): > 360 mg/l h est est Guideline 202
Toxicit plants	y to algae/aquatic	:	EbC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te GLP: yes	chneriella subcapitata (green algae)): 1,2 h est Guideline 201
			ErC50 (Pseudokiro mg/l Exposure time: 48 Method: OECD Te GLP: yes	chneriella subcapitata (green algae)): 2,8 h est Guideline 201
			EC50 (Lemna gibt End point: Frond Exposure time: 14 Method: US EPA GLP: yes	ba (duckweed)): 0,023 mg/l d Fest Guideline OPP 122-2 & 123-2
			EC50 (Lemna gibt End point: Biomas Exposure time: 14 Method: US EPA GLP: yes	ba (duckweed)): 0,017 mg/l s d Fest Guideline OPP 122-2 & 123-2
			ErC50 (Anabaena Exposure time: 96 Method: US EPA ⁻ GLP: yes	flos-aquae (cyanobacteria)): 5,2 mg/l h Test Guideline OPPTS 850.5400



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Toxicity	y to fish (Chronic tox-	:	NOEC (Oncorhynd Exposure time: 90 Test Type: Early L Method: OECD Te GLP: yes	chus mykiss (rainbow trout)): 110 mg/l d ife-Stage est Guideline 210
Toxicity aquatic (Chron	y to daphnia and other invertebrates ic toxicity)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te GLP: yes	nagna (Water flea)): 0,82 mg/l d est Guideline 202
Toxicity ganism	/ to soil dwelling or- Is	:	LC50 (Eisenia feti Method: OECD Te GLP: yes	da (earthworms)): 1.000 mg/kg est Guideline 207
Toxicity isms	y to terrestrial organ-	:	oral LD50 (Colinus mg/kg Method: US EPA GLP: yes	s virginianus (Bobwhite quail)): > 2.250 Test Guideline OPP 71-1
			oral LD50 (Anas p Method: US EPA GLP: yes	latyrhynchos (Mallard duck)): > 2.000 mg/kg Test Guideline OPP 71-1
			dietary LC50 (Coli mg/kg Exposure time: 8 d Method: OECD Te	nus virginianus (Bobwhite quail)): > 5.620 d est Guideline 205
			dietary LC50 (Ana mg/kg Exposure time: 8 o Method: OECD Te	s platyrhynchos (Mallard duck)): > 5.620 d est Guideline 205
			contact LD50 (Api Method: OEPP/EF GLP: yes	s mellifera (bees)): > 100 μg/b PO Test Guideline 170
			oral LD50 (Apis m Method: OEPP/EF	ellifera (bees)): > 1000 mg/b PPO Test Guideline 170
Ecotox	icology Assessment		Very toxic to aqua	tic life.
Chronie	c aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
Benzen	esulfonic acid, dodec	;yl-,	branched, sodiun	n salt:
Ecotox	icology Assessment		Very toxic to aqua	tic life
Chronie	c aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.
	-			



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die				
To	kicity to fish	:	Remarks: Material an acute basis (LC most sensitive spe	is moderately toxic to aquatic organisms on 50/EC50 between 1 and 10 mg/L in the cies tested).
			LC50 (Lepomis ma Exposure time: 48 Method: Method N	acrochirus (Bluegill sunfish)): 20 mg/l h lot Specified.
			LC50 (Oncorhyncl Exposure time: 96 Method: Method N	nus mykiss (rainbow trout)): 28 - 153 mg/l h lot Specified.
			LC50 (Lepomis ma Exposure time: 4 d Test Type: static to Method: Method N	acrochirus (Bluegill sunfish)): 135 - 180 mg/l d est lot Specified.
			LC50 (Cyprinodon mg/l Exposure time: 4 d Test Type: static to Method: Method N	variegatus (sheepshead minnow)): > 180 d est lot Specified.
To aq	kicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: Method N	agna (Water flea)): 110 - 750 mg/l h lot Specified.
			LC50 (scud Gamn Exposure time: 4 d	narus sp.): 3,9 - 4,9 mg/l 1
To: isn	kicity to terrestrial organ- ns	:	Remarks: Material basis (LC50 > 500 birds on an acute	is practically non-toxic to birds on a dietary 0 ppm)., Material is moderately toxic to basis (LD50 between 51 and 500 mg/kg).
			dietary LC50 (Coli mg/kg diet. Exposure time: 8 d	nus virginianus (Bobwhite quail)): > 10000 d
			oral LD50 (Colinus bodyweight. Exposure time: 14	s virginianus (Bobwhite quail)): 216 mg/kg d
			contact LD50 (Api Exposure time: 2 c	s mellifera (bees)): > 100 micrograms/bee
			oral LD50 (Apis m Exposure time: 2 d	ellifera (bees)): > 100 micrograms/bee 1
Nic	osulfuron:			
To	kicity to fish	:	Remarks: Material an acute basis (LC species).	is very highly toxic to aquatic organisms on C50/EC50 <0.1 mg/L in the most sensitive



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			LC50 (Oncorhync) Exposure time: 96 Test Type: static t Method: US EPA GLP: yes	hus mykiss (rainbow trout)): > 1.000 mg/l s h est Test Guideline OPP 72-1
Toxicit aquati	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: static t Method: US EPA GLP: yes	agna (Water flea)): > 1.000 mg/l s h est Test Guideline OPP 72-2
			NOEC (Daphnia n	nagna (Water flea)): 43 mg/l
Toxicit plants	ty to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te GLP: yes	chneriella subcapitata (green algae)): 71,17 ? h est Guideline 201
			EbC50 (Anabaena Exposure time: 96 Method: Directive GLP: yes	a flos-aquae (cyanobacteria)): 41,8 mg/l 5 h 67/548/EEC, Annex V, C.3.
			ErC50 (Anabaena Exposure time: 96 Method: Directive GLP: yes	flos-aquae (cyanobacteria)): 59,8 mg/l 5 h 67/548/EEC, Annex V, C.3.
			EC50 (Lemna gibl Exposure time: 7 o Method: US EPA GLP: yes	ba (duckweed)): 0,0032 mg/l d Test Guideline OPP 122-2 & 123-2
M-Fac	tor (Acute aquatic tox-	:	100	
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Oncorhynd Exposure time: 90 Test Type: Early L Method: OECD Te GLP: yes	chus mykiss (rainbow trout)): 24 mg/l) d .ife-Stage est Guideline 210
Toxicit aquati (Chror	ty to daphnia and other c invertebrates nic toxicity)	:	NOEC (Daphnia n Exposure time: 21 Test Type: Static- Method: OECD Te GLP: yes	nagna (Water flea)): 43 mg/l d Renewal est Guideline 202
M-Fac	tor (Chronic aquatic	:	10	
Toxicit isms	ty to terrestrial organ-	:	oral LD50 (Colinus mg/kg Method: US EPA GLP: yes	s virginianus (Bobwhite quail)): > 2.250 Test Guideline OPP 71-1



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			dietary LC50 (Ana mg/kg Exposure time: 5 c Method: US EPA ⁻ GLP: yes	s platyrhynchos (Mallard duck)): > 5.620 d Fest Guideline OPP 71-2
			oral LD50 (Apis m Exposure time: 48 Method: OECD Te GLP: yes	ellifera (bees)): 0,050 mg/kg h est Guideline 213
			oral LD50 (Apis m Exposure time: 48 Method: OECD Te GLP: yes	ellifera (bees)): > 100 mg/kg h st Guideline 214
Ecoto	xicology Assessment			
Acute	aquatic toxicity	:	Very toxic to aqua	tic life.
Chror	nic aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
Rimsu	llfuron:			
Toxic	ity to fish	:	LC50 (Oncorhynch Exposure time: 96 Method: OECD Te GLP: yes	nus mykiss (rainbow trout)): > 390 mg/l h est Guideline 203
Toxici aquat	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia (w Exposure time: 48 Test Type: static to Method: OECD Te GLP: yes	rater flea)): > 360 mg/l h est est Guideline 202
Toxici plants	ity to algae/aquatic	:	EbC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te GLP: yes	chneriella subcapitata (green algae)): 1,2 h est Guideline 201
			ErC50 (Pseudokiro mg/l Exposure time: 48 Method: OECD Te GLP: yes	chneriella subcapitata (green algae)): 2,8 h est Guideline 201
			EC50 (Lemna gibb End point: Frond Exposure time: 14 Method: US EPA	ba (duckweed)): 0,023 mg/l d Fest Guideline OPP 122-2 & 123-2
			EC50 (Lemna gibt End point: Biomas	ba (duckweed)): 0,017 mg/l s



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				Exposure time: 14 Method: US EPA GLP: yes	d Fest Guideline OPP 122-2 & 123-2
				ErC50 (Anabaena Exposure time: 96 Method: US EPA T GLP: yes	flos-aquae (cyanobacteria)): 5,2 mg/l h Fest Guideline OPPTS 850.5400
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oncorhynd Exposure time: 90 Test Type: Early L Method: OECD Te GLP: yes	chus mykiss (rainbow trout)): 110 mg/l d ife-Stage st Guideline 210
	Toxicity aquatic (Chronic	to daphnia and other invertebrates c toxicity)	:	NOEC (Daphnia m Exposure time: 21 Method: OECD Te GLP: yes	nagna (Water flea)): 0,82 mg/l d est Guideline 202
	Toxicity ganisms	to soil dwelling or- s	:	LC50 (Eisenia fetio Method: OECD Te GLP: yes	da (earthworms)): 1.000 mg/kg est Guideline 207
	Toxicity isms	to terrestrial organ-	:	oral LD50 (Colinus mg/kg Method: US EPA T GLP: yes	s virginianus (Bobwhite quail)): > 2.250 Test Guideline OPP 71-1
				oral LD50 (Anas p Method: US EPA T GLP: yes	latyrhynchos (Mallard duck)): > 2.000 mg/kg Test Guideline OPP 71-1
				dietary LC50 (Coli mg/kg Exposure time: 8 c Method: OECD Te	nus virginianus (Bobwhite quail)): > 5.620 d est Guideline 205
				dietary LC50 (Ana mg/kg Exposure time: 8 c Method: OECD Te	s platyrhynchos (Mallard duck)): > 5.620 d est Guideline 205
				contact LD50 (Apis Method: OEPP/EF GLP: yes	s mellifera (bees)): > 100 μg/b PO Test Guideline 170
				oral LD50 (Apis m Method: OEPP/EP	ellifera (bees)): > 1000 mg/b PO Test Guideline 170
I	Ecotoxi	cology Assessment			
	Acute a	quatic toxicity	:	Very toxic to aqua	tic life.
	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.



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Benze	enesulfonic acid, mono	-C1	1-13-branched alk	yl derivs., sodium salts:
Toxic	sity to fish	:	LC50 (Bluegill sur Exposure time: 96	nfish (Lepomis macrochirus)): 1,67 mg/l Sh
Toxic aqua	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	agna): 0,83 mg/l 3 h est Guideline 202
Toxic plant	sity to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 37 2 h
M-Fa	ctor (Acute aquatic tox-	:	1	
Toxic	city to fish (Chronic tox-	:	NOEC (Rainbow t	rout (Salmo gairdneri)): 0,23 mg/l
Toxic aqua (Chro	tity to daphnia and other tic invertebrates onic toxicity)	:	NOEC (Daphnia n Exposure time: 21	nagna): 1,18 mg/l ⊨d
Persi	stence and degradabilit	y		
<u>Produ</u>	<u>uct:</u>			
Biode	egradability	:	Remarks: Not read Estimation based	dily biodegradable. on data obtained on active ingredient.
Comp	oonents:			
Nicos	sulfuron:			
Biode	egradability	:	Remarks: Accordi this product is not	ng to the results of tests of biodegradability readily biodegradable.
Rims	ulfuron:			
Biode	egradability	:	Result: Not readily	/ biodegradable.
Nicos	sulfuron:			
Biode	egradability	:	Remarks: Accordi this product is not	ng to the results of tests of biodegradability readily biodegradable.
Rims	ulfuron:			
Biode	egradability	:	Result: Not readily	/ biodegradable.
Benze	enesulfonic acid, mono	-C1	1-13-branched alk	yl derivs., sodium salts:
Biode	egradability	:	Result: Not biodeg	gradable
Bioac	cumulative potential			
<u>Produ</u>	<u>ict:</u>			
Bioad	ccumulation	:	Remarks: Does no Estimation based	ot bioaccumulate. on data obtained on active ingredient.



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Co	omponents:			
dio	camba (ISO):			
Pa ta	artition coefficient: n-oc- nol/water	:	Remarks: Potentia tween 0 and 50). Bioconcentration	al for mobility in soil is very high (Koc be- potential is low (BCF < 100 or Log Pow < 3).
			log Pow: -1,69 - 3 Method: Estimate	,01 d.
Nie	cosulfuron:			
Bi	ioaccumulation	:	Remarks: Does no	ot bioaccumulate.
Pa ta	artition coefficient: n-oc- nol/water	:	log Pow: -1,15 Method: Estimate Remarks: Biocono Pow < 3).	d. centration potential is low (BCF < 100 or Log
so	dium hydroxide:			
Pa ta	artition coefficient: n-oc- nol/water	:	Remarks: No bioc atively high water	concentration is expected because of the rel- solubility.
Ва	rden Clay:			
Pa ta	artition coefficient: n-oc- nol/water	:	Remarks: Partition ble.	ning from water to n-octanol is not applica-
Ri	msulfuron:			
Bi	ioaccumulation	:	Remarks: Does no	ot bioaccumulate.
Pa ta	artition coefficient: n-oc- nol/water	:	Remarks: No rele	vant data found.
Be	enzenesulfonic acid, dode	cyl-	, branched, sodiur	n salt:
Pa ta	artition coefficient: n-oc- nol/water	:	Remarks: No rele	vant data found.
dio	camba (ISO):			
Pa ta	artition coefficient: n-oc- nol/water	:	Remarks: Potentia tween 0 and 50). Bioconcentration	al for mobility in soil is very high (Koc be- potential is low (BCF < 100 or Log Pow < 3).
			log Pow: -1,69 - 3 Method: Estimate	,01 d.
Nie	cosulfuron:			
Bi	ioaccumulation	:	Remarks: Does no	ot bioaccumulate.
Pa ta	artition coefficient: n-oc- nol/water	:	log Pow: -1,15 Method: Estimate	d.



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			Remarks: Biocon Pow < 3).	centration potential is low (BCF < 100 or Log
Rimsu	lfuron:			
Bioaco	cumulation	:	Remarks: Does n	ot bioaccumulate.
Partitio tanol/v	on coefficient: n-oc- vater	:	Remarks: No rele	vant data found.
sodiun	n hydroxide:			
Partitio tanol/v	on coefficient: n-oc- vater	:	Remarks: No biod atively high water	concentration is expected because of the rel- solubility.
Benzei	nesulfonic acid, mono	-C1	1-13-branched all	kyl derivs., sodium salts:
Bioaco	cumulation	:	Bioconcentration	factor (BCF): 0,5
Partitio tanol/v	on coefficient: n-oc- vater	:	log Pow: 0 (20 °C pH: 5,8)
Mobilit	y in soil			
Produc	ot:			
Distrib menta	Distribution among environ- mental compartments		Remarks: The pro Under actual use mobility in soil.	oduct is not expected to be mobile in soils. conditions the product has a low potential of
Compo	onents:			
dicam	ba (ISO):			
Distrib menta	ution among environ- I compartments	:	Koc: 0 - 470	
Nicosu	Ilfuron:			
Distrib menta	ution among environ- I compartments	:	Koc: 33 - 51 Remarks: Under a potential of mobili	actual use conditions the product has a low ty in soil.
sodiun	n hydroxide:			
Distrib menta	ution among environ- I compartments	:	Koc: 14 Method: Estimate Remarks: Potenti tween 0 and 50).	d. al for mobility in soil is very high (Koc be-
Benzei	nesulfonic acid, dode	cyl-	, branched, sodiu	m salt:
Distrib menta	ution among environ- l compartments	:	Remarks: No rele	vant data found.
dicam	ba (ISO):			
Distrib menta	Distribution among environ- mental compartments		Koc: 0 - 470	
Nicosu	Ilfuron:			



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Distr men	ibution among environ- tal compartments	:	Koc: 33 - 51 Remarks: Under actual use conditions the product has a low potential of mobility in soil.		
sodiu	um hvdroxide:				
Distr men	Distribution among environ- : mental compartments		Koc: 14 Method: Estimated. Remarks: Potential for mobility in soil is very high (Koc be- tween 0 and 50).		
Othe	r adverse effects				
<u>Com</u>	ponents:				
Nico	sulfuron:				
Resisess	ults of PBT and vPvB as- ment	:	This substance is lating and toxic (P very persistent and	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).	
Ozo	ne-Depletion Potential	:	Remarks: This sub of substances that	ostance is not on the Montreal Protocol list deplete the ozone layer.	
sodiu	ım hydroxide:				
Resisess	ults of PBT and vPvB as- ment	:	This substance is lating and toxic (P very persistent and	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).	
Ozo	ne-Depletion Potential	:	Remarks: This sub of substances that	ostance is not on the Montreal Protocol list deplete the ozone layer.	
Bard	en Clay:				
Resisess	ults of PBT and vPvB as- ment	:	This substance is lating and toxic (P very persistent and	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).	
Ozo	ne-Depletion Potential	:	Remarks: This sub of substances that	ostance is not on the Montreal Protocol list deplete the ozone layer.	
Rims	ulfuron:				
Resisess	ults of PBT and vPvB as- ment	:	This substance is lating and toxic (P very persistent and	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).	
Ozo	ne-Depletion Potential	:	Remarks: This sub of substances that	ostance is not on the Montreal Protocol list deplete the ozone layer.	
Benz	enesulfonic acid, dodec	yl	branched, sodiun	n salt:	
Resi	ults of PBT and vPvB as-	:	This substance ha	s not been assessed for persistence, bioac- xicity (PBT).	



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Ozone-Depletion Potential		:	Remarks: This sub of substances that	ostance is not on the Montreal Protocol list deplete the ozone layer.
Nicos	ulfuron:			
Resul sessn	ts of PBT and vPvB as- nent	:	This substance is lating and toxic (P very persistent and	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
Ozone-Depletion Potential		:	Remarks: This sub of substances that	ostance is not on the Montreal Protocol list deplete the ozone layer.
Rimsu	Ilfuron:			
Resul sessn	ts of PBT and vPvB as- nent	:	This substance is lating and toxic (P very persistent and	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
Ozone	Ozone-Depletion Potential		Remarks: This sub of substances that	ostance is not on the Montreal Protocol list deplete the ozone layer.
sodiur	n hydroxide:			
Resul sessn	ts of PBT and vPvB as- nent	:	This substance is lating and toxic (P very persistent and	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).
Ozone	e-Depletion Potential	:	Remarks: This sub of substances that	ostance is not on the Montreal Protocol list deplete the ozone layer.

13. DISPOSAL CONSIDERATIONS

Disposal	methods
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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 other- wise contaminated. It is the responsibility of the waste gener- ator to determine the toxicity and physical properties of the material generated to determine the proper waste identifica- tion and disposal methods in compliance with applicable regu- lations.
	If the material as supplied becomes a waste, follow all applica- ble regional, national and local laws.

14. TRANSPORT INFORMATION

ADR

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.



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Class Packi Label Hazai	ng group s rd Identification Number	:	(Nicosulfuron) 9 III 9 90	
Tunne	el restriction code	:	(-)	
UNR1 UN nu Prope	r DG umber er shipping name	:	UN 3077 ENVIRONMENTA N.O.S. (Nicosulfuron)	LLY HAZARDOUS SUBSTANCE, SOLID,
Class		:	9	
Packi Label	ng group s	:	 9	
		•	0	
) No.	•	UN 3077	
Prope	er shipping name	:	Environmentally h (Nicosulfuron)	azardous substance, solid, n.o.s.
Class		:	9	
Packi	ng group	:		
Label	S	:	Miscellaneous	
Packi aircra	ng instruction (cargo ft)	:	956	
Packi ger ai	ng instruction (passen- rcraft)	:	956	
IMDG	-Code			
UN nı	umber	:	UN 3077	
Prope	r shipping name	:	ENVIRONMENTA N.O.S. (Nicosulfuron)	LLY HAZARDOUS SUBSTANCE, SOLID,
Class		:	9	
Packi	ng group	:	111	
Label	S	:	9	
EmS	Code	:	F-A, S-F	
Marin	e pollutant	:	yes(Nicosulfuron)	
Rema	irks	:	Stowage category	Y A

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

Not applicable for product as supplied.

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.

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.



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15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Full text of H-Statements	
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H290	May be corrosive to metals.				
H302	Harmful if swallowed.				
H312	Harmful in contact with skin.				
H313	May be harmful in contact with skin.				
H314	Causes severe skin burns and eye damage.				
H315	Causes skin irritation.				
H318	Causes serious eye damage.				
H332	Harmful if inhaled.				
H400	Very toxic to aquatic life.				
H402	Harmful to aquatic life.				
H410	Very toxic to aquatic life with long lasting effects.				
H411	Toxic to aquatic life with long lasting effects.				
H412	Harmful to aquatic life with long lasting effects.				
Full text of other abbreviations					
Acute Tox.	: Acute toxicity				
Aquatic Acute	: Short-term (acute) aquatic hazard				
Aquatic Chronic	: Long-term (chronic) aquatic hazard				
Eye Dam.	: Serious eve damage				
Met. Corr.	: Corrosive to metals				
Skin Corr.	: Skin corrosion				
Skin Irrit.	: Skin irritation				
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers				
	from the risks related to exposure to carcinogens or mutagens at work				
RUOFI	SanPiN 1 2 3685-21 Table 2 1 Table 2 8 Table 2 16 & Table				
	2 17 Maximum permissible concentrations (MPC) in the air of				
	the working area				
2004/37/EC / TWA	· Long term exposure limit				
BUOEL / MPC-STEL	. Long term experies the Organization Object Term Function				
RUOFL/MPC-TWA	Maximum Permissible Concentration - Short Term Exposure				

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -



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

Product code: GF-3981

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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