according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



## Principal Forte

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Corteva Agriscience<sup>™</sup> 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 Ireland and may not meet the regulatory requirements in other countries.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifier**

Trade name	: Principal Forte
Unique Formula Identifier (UFI)	: 5KYA-50T9-W00S-6G22

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	:	Herbicide
stance/Mixture		

#### 1.3 Details of the supplier of the safety data sheet

#### **COMPANY IDENTIFICATION**

Manufacturer/importer Corteva Agriscience UK Limited Melbourn Science Park - Cambridge Road - Unit H4, Building H Melbourn Cambridgeshire - SG8 6HB UNITED KINGDOM

Customer Information	:	+44 8006 89 8899
Number		
E-mail address	:	SDS@corteva.com

#### **1.4 Emergency telephone number**

SGS: +353 818 663 627

National Poisons Information Centre (Beaumont Hospital): 01 809 2166 (8 AM - 10 PM)

#### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation. ™ ® Trademarks of Corteva Agriscience and its affiliated companies.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Skin sensitisation, Category 1 Short-term (acute) aquatic hazard gory 1 Long-term (chronic) aquatic hazar		ard, Cate- H400: \		May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting	
egory				effects	
2.2 Label	elements				
	Iling (REGULATION (E rd pictograms	: :	No 1272/200	08)	
Signa	al word	:	Warning		
Haza	rd statements	:	H317 H319 H410	Cause	ause an allergic skin reaction. es serious eye irritation. oxic to aquatic life with long lasting effects.
Preca	autionary statements	:	Prevention           P280           Response           P302 + P33           P305 + P33           P333 + P33           P337 + P33           Disposal:           P501	Wear protect 52 IF 51 + P3 ter for prese 13 If s advice 13 If s advice 13 If s attent	several minutes. Remove contact lenses, if nt and easy to do. Continue rinsing. kin irritation or rash occurs: Get medical de/ attention. eye irritation persists: Get medical advice/

#### Hazardous components which must be listed on the label:

Rimsulfuron ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate

#### **Additional Labelling**

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Components			
Chemical name	CAS-No. EC-No. Index-No. REACH Registration number	Classification	Concentration (% w/w)
Dicamba	1918-00-9 217-635-6 607-043-00-X	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 Aquatic Chronic 3; H412	60.05
sodium 3,6-dichloro-o-anisate	1982-69-0 217-846-3 607-243-00-7	Aquatic Chronic 3; H412	9.91
Nicosulfuron	111991-09-4 601-148-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 10	6.87
Rimsulfuron	122931-48-0	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	3.26
ethyl 5,5-diphenyl-2-isoxazoline-3- carboxylate	163520-33-0 443-870-0 607-694-00-X	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1	3.22

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			M-Factor (Chronic aquatic toxicity): 1
	enesulfonic acid, mon anched alkyl derivs., s		Acute Tox. 4; H302       >= 0.25 - < 0.3
Subst	ances with a workpla	ce exposure limit :	
Barde	en Clay	1332-58- 310-194-	>= 1 - < 3

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice :	Never give anything by mouth to an unconscious person.
Protection of first-aiders :	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical re- sistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
If inhaled :	Move to fresh air. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.
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. Wash contaminated clothing before reuse.
In case of eye contact :	If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15- 20 minutes. If eye irritation persists, consult a specialist.
If swallowed :	Obtain medical attention. DO NOT induce vomiting unless directed to do so by a physi- cian or poison control center. If victim is conscious:

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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			Rinse mouth with	water.
4.2 Most	important symptoms a	nd e	effects, both acut	e and delayed
Symp	otoms	:		an intoxication are known and the symptoms ntoxication are not known.
4.3 Indica	tion of any immediate	meo	dical attention an	d special treatment needed
Treat	ment	:	Treat symptomat	ically.
SECTIO	N 5: Firefighting meas	sur	es	
5.1 Exting	guishing media			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant	foam
Unsu medi	itable extinguishing a	:	Dry chemical	
5.2 Speci	al hazards arising from	the	e substance or m	xture
Spec fighti	ific hazards during fire- ng	:	Applying foam wigas that can be t	bustion products may be a hazard to health. Il release significant amounts of hydrogen rapped under the foam blanket. off from fire fighting to enter drains or water
Haza ucts	rdous combustion prod-	:	tion to combustic be toxic and/or ir	lucts may include and are not limited to:
5.3 Advic	e for firefighters			
Spec	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
Spec ods	ific extinguishing meth-	:	tents. Most fire e lution, and once ventilated or con sion if ignited. Remove undama so. Evacuate area.	nguishing medium to contact container con- xtinguishing media will cause hydrogen evo- the fire is put out, may accumulate in poorly fined areas and result in flash fire or explo- aged containers from fire area if it is safe to do
			cumstances and	the surrounding environment. to cool unopened containers.
Furth	er information	:		ated fire extinguishing water separately. This

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		Fire residue	discharged into drains. s and contaminated fire extinguishing water must l of in accordance with local regulations.
SECTION	N 6: Accidental rele	ase measures	
6.1 Perso	nal precautions, prot	ective equipment	and emergency procedures
Perso	onal precautions	Avoid dust f Avoid breat Use person Use approp	
6.2 Enviro	onmental precautions	6	
Environmental precautions		respective a Discharge in Prevent furt Retain and Local autho cannot be c Prevent fror	nto the environment must be avoided. her leakage or spillage if safe to do so. dispose of contaminated wash water. rities should be advised if significant spillages
6.3 Metho	ds and material for o	ontainment and c	leaning up
Methods for cleaning up		: Local or nat posal of this employed ir Pick up and Recovered The vent mu with spilled pressurizati Keep in suit Sweep up o tainer for dis	ional regulations may apply to releases and dis- material, as well as those materials and items arrange disposal without creating dust. material should be stored in a vented container. ust prevent the ingress of water as further reaction materials can take place which could lead to over- on of the container. able, closed containers for disposal. r vacuum up spillage and collect in suitable con-

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

- Advice on safe handling
- Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not

:

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Hygiene measures			used. Provide sufficient Avoid formation of Do not breathe va Do not smoke. Handle in accord practice. Avoid exposure - Smoking, eating a plication area. Do not get on ski Avoid inhalation of Do not get on ski Avoid inhalation of Do not get in eye Avoid contact wit Take care to prevent environment. Use appropriate so refer to Section 8 Handle in accord practice. Regular ing. Keep working clothing should no	ance with good industrial hygiene and safety obtain special instructions before use. and drinking should be prohibited in the ap- n or clothing. of vapour or mist.	
7.2 0	Conditi	ons for safe storage,	inc	luding any incom	patibilities
	Requir	ements for storage and containers	:	Store in a closed must be carefully age. Keep in pro	container. Containers which are opened resealed and kept upright to prevent leak- perly labelled containers. Store in accordance r national regulations.
	Advice	on common storage	:	Strong oxidizing	agents
	Packa	ging material	:	Unsuitable mater	ial: None known.
7.3 S	Specifi	c end use(s)			
Specific use(s)		:	Plant protection p 1107/2009.	products subject to Regulation (EC) No	

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Barden Clay	1332-58-7	OELV - 8 hrs (TWA) (Respira- ble dust)	2 mg/m3	IE OEL
		TWA (Respirable	0.1 mg/m3	2004/37/EC

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		dust)		
	Furth	er information: Carcine	ogens or mutagens	
Deriv	ved No Effect Level (	DNEL) according to F	Regulation (EC) No. 1907/2006	

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Disodium hydrogen phosphate	Workers	Inhalation	Long-term systemic effects	4.07 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3.04 mg/m3

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Disodium hydrogen phosphate	Fresh water	0.05 mg/l
	Marine water	0.005 mg/l
	Intermittent use/release	0.5 mg/l
	Sewage treatment plant	50 mg/l

### 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas. Provide for appropriate exhaust ventilation and dust collection at machinery.

#### Personal protective equipment

	Use chemical goggles. Safety glasses with side-shields conforming to EN166 Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
Hand protection	
Remarks :	The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local condi- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Skin and body protection :	Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.
Respiratory protection :	Manufacturing and processing work: Half mask with a particle filter FFP1 (EN149) Mixer and loaders must wear: Half mask with a particle filter FFP1 (EN149) Spray application - outdoor: No personal respiratory protective equipment normally re- quired. Tractor / sprayer without hood: Half mask with a particle filter FFP1 (EN149) Backpack / knapsack sprayer:

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Protec	tive measures	Spray application Motorized green Half mask with a Mechanical auto No personal resp quired. The type of prote to the concentrat at the specific wo All chemical prot prior to use. Clot	house sprayer: particle filter P1 (EN 143). matized spray application in closed tunnel: piratory protective equipment normally re- ective equipment must be selected according tion and amount of the dangerous substance

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

:	solid
:	No data available
:	No odor information provided
:	No data available
:	No data available
	Not applicable
:	Not applicable
:	No data available
:	Not applicable
:	7
:	Not applicable

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W	/ater solubility	: No data available	
Vapo	our pressure	: Not applicable	
Rela	tive density	: No data available	
Dens	sity	: No data available	
Bulk	density	: ca. 0.6 kg/m3	
		0.66 kg/m3	
Rela	tive vapour density	: Not applicable	
9.2 Other	information		
Expl	osives	: Not explosive	
Oxid	izing properties	: The substance or mixture is not classified as oxidizing.	
Self-	ignition	: No data available	
Evap	ooration rate	: Not applicable	
Surfa	ace tension	: No data available	

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed. Stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions	: Stable under recommended storage conditions.
	No hazards to be specially mentioned.
	None known.

#### 10.4 Conditions to avoid

Conditions to avoid : None known.

#### 10.5 Incompatible materials

Materials to avoid	: Strong acids
	Strong bases

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### **10.6 Hazardous decomposition products**

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon oxides Nitrogen oxides (NOx)

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity		
Product: Acute oral toxicity	:	LD50 (Rat, female): > 2,000 - < 5,000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture has no acute oral tox- icity Remarks: Information source: Internal study report
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: No deaths occurred at this concentration. Remarks: Information source: Internal study report
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402 Symptoms: No deaths occurred at this concentration. Remarks: Information source: Internal study report
Components:		
Dicamba:		
<b>Dicamba:</b> Acute oral toxicity	:	LD50 (Rat): 1,040 - 1,707 mg/kg
2.00	:	LD50 (Rat): 1,040 - 1,707 mg/kg Remarks: Prolonged excessive exposure to dust may cause adverse effects. Dust may cause irritation of the upper respiratory tract (nose and throat) and lungs.
Acute oral toxicity	:	Remarks: Prolonged excessive exposure to dust may cause adverse effects. Dust may cause irritation of the upper respiratory tract (nose
Acute oral 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. LC50 (Rat): > 9.6 mg/l Exposure time: 4 h

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Nicos	sulfuron:				
Acute	Acute oral toxicity		LD50 (Rat): > 5,000 mg/kg Method: US EPA Test Guideline OPP 81-1		
Acute	Acute inhalation toxicity		LC50 (Rat): > 5.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: US EPA Test Guideline OPP 81-3 Assessment: The substance or mixture has no acute inha tion toxicity		
Acute	Acute dermal toxicity		LD50 (Rat): > 2,000 mg/kg Method: US EPA Test Guideline OPP 81-2 Assessment: The substance or mixture has no acute derma toxicity		
Rims	ulfuron:				
Acute	e oral toxicity	:	LD50 (Rat): > 5 Method: Directi	,000 mg/kg ve 67/548/EEC, Annex V, B.1.	
Acute	e inhalation toxicity	:	Symptoms: No	4 h	
Acute	Acute dermal toxicity		LD50 (Rabbit): > 2,000 mg/kg Method: Directive 67/548/EEC, Annex V, B.3. Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute of toxicity		
ethyl	5,5-diphenyl-2-isoxa	zoline	-3-carboxylate:		
Acute	e oral toxicity	:	LD50 (Rat, mal	e and female): 1,740 mg/kg	
Acute	inhalation toxicity	:	Exposure time: Test atmosphered		
Acute	e dermal toxicity	:		e and female): > 2,000 mg/kg deaths occurred at this concentration.	
Benz	enesulfonic acid, mo	ono-C1	1-13-branched	alkyl derivs., sodium salts:	
	e oral toxicity	:		e and female): 520 mg/kg	
Acute	e dermal toxicity	:	Method: OECD	e and female): > 1,000 - < 1,600 mg/kg Test Guideline 402 imilar material(s):	

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Barde	en Clay:			
Acute	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Skin d	corrosion/irritation			
<u>Produ</u>	<u>uct:</u>			
Specie	es	:	EpiDerm™ skin	model
Metho	bd	:	US EPA Test G	uideline OPP 81-5
Resul			No skin irritation	
Rema	rks	:	Information sou	rce: Internal study report
Comp	oonents:			
Nicos	sulfuron:			
Specie			Rabbit	
Metho				uideline OPP 81-5
Resul	t	:	No skin irritatior	1
Rims	ulfuron:			
Specie			Rabbit	
Metho				3/EEC, Annex V, B.4.
Resul	t	:	No skin irritatior	1
Benze	enesulfonic acid, mo	ono-C1	1-13-branched	alkyl derivs., sodium salts:
Specie	es	:	Rabbit	
Resul	t	:	Skin irritation	
Barde	en Clay:			
Specie	-	:	Rabbit	
Resul			No skin irritatior	1
Serio	us eye damage/eye	irritatio	'n	
Produ				
Specie		:	In Vitro - Humar	n Cell
Metho				uideline OPPTS 870.2400
Resul	t		Eye irritation	
Rema	rks	:	Information sou	rce: Internal study report
<u>Comp</u>	oonents:			
Dican	nba:			
Resul	t	:	Corrosive	
Nicos	sulfuron:			
Specie			Rabbit	
0000	~~	•		

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Metho	od	: US EPA Test Guideline OPP 81-4
Resul	t	: No eye irritation
Rims	ulfuron:	
Speci	es	: Rabbit
Metho	bd	: Directive 67/548/EEC, Annex V, B.5.
Resul	t	: No eye irritation
Benze	enesulfonic acid, m	ono-C11-13-branched alkyl derivs., sodium salts:
Speci	es	: Rabbit
Metho	bd	: OECD Test Guideline 405
Resul	t	: Corrosive
Barde	en Clay:	
Speci	es	: Rabbit
Resul		: No eye irritation
Respi	iratory or skin sens	itisation
<u>Produ</u>	<u>uct:</u>	
Test T	Гуре	: Local lymph node assay (LLNA)
Speci	es	: Mouse
Metho	bd	: OECD Test Guideline 429
Rema	ırks	: Information source: Internal study report
<u>Comp</u>	oonents:	
Dican	nba:	
Speci	es	: Guinea pig
	es	: Guinea pig : Does not cause skin sensitisation.
Speci Resul	es	
Specie Resul	es t sulfuron:	
Speci Resul	es t sulfuron: Гуре	<ul> <li>Does not cause skin sensitisation.</li> <li>Buehler Test</li> <li>Guinea pig</li> </ul>
Specie Result Nicos Test T	es t sulfuron: Type es	<ul><li>Does not cause skin sensitisation.</li><li>Buehler Test</li></ul>
Specie Result Nicos Test T Specie	es t sulfuron: Fype es od	<ul> <li>Does not cause skin sensitisation.</li> <li>Buehler Test</li> <li>Guinea pig</li> </ul>
Specie Result Nicos Test T Specie Metho Result	es t sulfuron: Fype es od	<ul> <li>Does not cause skin sensitisation.</li> <li>Buehler Test</li> <li>Guinea pig</li> <li>US EPA Test Guideline OPP 81-6</li> </ul>
Specie Result Nicos Test T Specie Metho Result	es t sulfuron: Type es od t t	<ul> <li>Does not cause skin sensitisation.</li> <li>Buehler Test</li> <li>Guinea pig</li> <li>US EPA Test Guideline OPP 81-6</li> </ul>
Specie Result Nicos Test T Specie Result Result	es t sulfuron: Type es od t ulfuron: Type	<ul> <li>Does not cause skin sensitisation.</li> <li>Buehler Test</li> <li>Guinea pig</li> <li>US EPA Test Guideline OPP 81-6</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>Maximisation Test</li> <li>Guinea pig</li> </ul>
Specie Result Nicos Test T Specie Metho Result Rimse Test T	es t sulfuron: Type es od t ulfuron: Type es	<ul> <li>Does not cause skin sensitisation.</li> <li>Buehler Test</li> <li>Guinea pig</li> <li>US EPA Test Guideline OPP 81-6</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>Maximisation Test</li> </ul>
Specie Result Nicos Test T Specie Result Rimsult Specie Test T	es t sulfuron: Type es od t ulfuron: Type es od	<ul> <li>Does not cause skin sensitisation.</li> <li>Buehler Test</li> <li>Guinea pig</li> <li>US EPA Test Guideline OPP 81-6</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>Maximisation Test</li> <li>Guinea pig</li> </ul>
Specie Result Nicos Test T Specie Result Rimse Test T Specie Result	es t sulfuron: Type es od t ulfuron: Type es od t	<ul> <li>Does not cause skin sensitisation.</li> <li>Buehler Test</li> <li>Guinea pig</li> <li>US EPA Test Guideline OPP 81-6</li> <li>Did not cause sensitisation on laboratory animals.</li> </ul> Maximisation Test <ul> <li>Guinea pig</li> <li>OECD Test Guideline 406</li> </ul>
Specie Result Nicos Test T Specie Result Rimse Test T Specie Result	es t sulfuron: Fype es od t ulfuron: Fype es od t 5,5-diphenyl-2-isox	<ul> <li>Does not cause skin sensitisation.</li> <li>Buehler Test</li> <li>Guinea pig</li> <li>US EPA Test Guideline OPP 81-6</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>Maximisation Test</li> <li>Guinea pig</li> <li>OECD Test Guideline 406</li> <li>Does not cause skin sensitisation.</li> </ul>

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Benze	enesulfonic acid, mon	10-C	11-13-branched	alkyl derivs., sodium salts:
Test T	уре	:	Maximisation Te	est
Specie		:	Guinea pig	
Metho		:	OECD Test Gui	
Result		:		skin sensitisation.
Rema	rks	:	For similar mate	erial(s):
Germ	cell mutagenicity			
Comp	onents:			
Dicarr	ıba:			
Germ sessm	cell mutagenicity- As- nent	:		oxicity studies were negative in some cases other cases., Animal genetic toxicity studies
Nicos	ulfuron:			
Germ sessm	cell mutagenicity- As- nent	:	In vitro genetic	oxicity studies were negative.
Rimsu	ulfuron:			
Germ sessm	cell mutagenicity- As- nent	:		ial or mammalian cell cultures did not show ts., Animal testing did not show any mutager
Benze	enesulfonic acid, mon	10-C	11-13-branched	alkyl derivs., sodium salts:
	cell mutagenicity- As-	:		oxicity studies were negative., In vivo tests
Carcii	nogenicity			
Comp	onents:			
Nicos	ulfuron:			
Carcin ment	nogenicity - Assess-	:	Did not cause c	ancer in laboratory animals.
Rimsı	ulfuron:			
Carcin ment	ogenicity - Assess-	:	Did not cause c	ancer in laboratory animals.
ethyl	5,5-diphenyl-2-isoxaz	oline	e-3-carboxylate:	
Carcin ment	ogenicity - Assess-	:	Did not cause c	ancer in laboratory animals.
Barde	en Clay:			
Carcir ment	nogenicity - Assess-	:	Animal testing of	lid not show any carcinogenic effects.
-			Available data s	uggest that the material is unlikely to cause

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	Repro	ductive toxicity			
	Comp	onents:			
	Dicam Reproc sessme	ductive toxicity - As-	:		did not interfere with reproduction. h defects in laboratory animals.
		ulfuron: ductive toxicity - As- ent	:	mal studies, did n	did not interfere with reproduction., In ani- ot interfere with fertility. togenic effects in animal experiments.
		<b>Ifuron:</b> ductive toxicity - As- ent	:		did not interfere with reproduction. cts were not observed in laboratory animals.
	ethyl 5	i,5-diphenyl-2-isoxazo	olin	e-3-carboxylate:	
	Reproc sessmo	ductive toxicity - As- ent	:		did not interfere with reproduction. the fetus in laboratory animals at doses r.
	Benze	nesulfonic acid, mon	o-C	11-13-branched al	kyl derivs., sodium salts:
		ductive toxicity - As-	:	In animal studies,	did not interfere with reproduction. h defects or any other fetal effects in labora-
	STOT	- single exposure			
	<u>Produ</u> Assess		:	The substance or organ toxicant, sir	mixture is not classified as specific target ngle exposure.
	Comp	onents:			
	Nicosu Assess	ulfuron: sment	:	Evaluation of avai an STOT-SE toxid	lable data suggests that this material is not cant.
	<b>Rimsu</b> Assess	lfuron: sment	:	Available data are specific target org	e inadequate to determine single exposure an toxicity.
	ethvl 5	i,5-diphenyl-2-isoxazo	olin	e-3-carboxvlate:	
	Assess			-	e inadequate to determine single exposure an toxicity.

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nesulfonic acid, mo	ono-C11-13-branched	l alkyl derivs., sodium salts:
ment		are inadequate to determine single exposure organ toxicity.
n Clay:		
ment	: Evaluation of a an STOT-SE to	vailable data suggests that this material is no participation of the suggests that the state of the second se
· repeated exposur	е	
<u>&gt;t:</u>		
ment		vailable data suggests that this material is no oxicant.
ed dose toxicity		
onents:		
ba:		
٢S		able data, repeated exposures are not antici- significant adverse effects.
llfuron:		
٢S		able data, repeated exposures are not antici- significant adverse effects.
lfuron:		
KS	: In animals, effe gans: Liver	ects have been reported on the following or-
,5-diphenyl-2-isoxa	azoline-3-carboxylate	:
ks	-	ects have been reported on the following or-
nesulfonic acid, mo	ono-C11-13-branched	l alkyl derivs., sodium salts:
KS		terial(s): ects have been reported on the following or-
	04.03.2025 nesulfonic acid, moment a Clay: ment repeated exposur ct: ment a dose toxicity onents: oa: (s lfuron: (s furon: (s ,5-diphenyl-2-isoxa (s hesulfonic acid, mo	04.03.2025       800080006238         nesulfonic acid, mono-C11-13-branched ment       :         Available data specific target         n Clay: ment       :         ment       :         repeated exposure         ti: ment       :         ment       :         repeated exposure         ti: ment       :         wed dose toxicity         onents:         oa:         (s       :         (s       :         ifuron:       :         (s       :         :

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Rema	arks	•	: Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.					
Aspi	ration toxicity							
<u>Prod</u> Base		ion, aspiration hazard	could not be determined.					
<u>Com</u>	ponents:							
	<b>sulfuron:</b> d on physical propertie	s, not likely to be an a	spiration hazard.					
	<b>sulfuron:</b> d on physical propertie	s, not likely to be an a	spiration hazard.					
-	<b>5,5-diphenyl-2-isoxa</b> d on physical propertie	-						
	<b>cenesulfonic acid, mo</b> d on physical propertie		alkyl derivs., sodium salts: spiration hazard.					
	<b>en Clay:</b> d on physical propertie	s, not likely to be an a	spiration hazard.					
11.2 Infor	mation on other haza	irds						
Endo	ocrine disrupting prop	perties						
Prod	uct:							
Asse	ssment	ered to have er REACH Article	/mixture does not contain components consid- ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.					
SECTIO	N 12: Ecological inf	ormation						
12.1 Toxi	city							
Prod	uct:							
Toxic	ity to fish	Exposure time: Test Type: Stat						

Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna): 7.14 mg/l

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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aqua	atic invertebrates		Exposure time: 48 Test Type: Static Method: OECD T	renewal test
	Toxicity to algae/aquatic plants		mg/l End point: Growth Exposure time: 72 Method: OECD T	2 h
			End point: Growth Exposure time: 7 Method: OECD T	d
			End point: Growth Exposure time: 7 Method: OECD T	d
Toxic ganis	city to soil dwelling or- sms	:	LC50: > 720 mg/k Exposure time: 28 End point: growth Species: Eisenia Method: OECD T	3 d andrei (red worm)
			LC50: 189.9 mg/k Exposure time: 28 End point: growth Species: Eisenia Method: OECD T	3 d andrei (red worm)
Toxio isms	city to terrestrial organ-	:	LD50: > 100 µg/b Exposure time: 48 End point: Acute Species: Apis me Method: OECD T	3 h oral toxicity Ilifera (bees)
			contact LD50: > 1 Exposure time: 48 End point: Acute Species: Apis me Method: OECD T	3 h contact toxicity Ilifera (bees)
	oxicology Assessment	:	<b>.</b>	
	e aquatic toxicity	:	Very toxic to aqua	
Chro	onic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.

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	<u>Compo</u>	nents:			
	<b>Dicamba:</b> Toxicity to fish		:		l is toxic to aquatic organisms between 1 and 10 mg/L in the most sensi-
				LC50 (Lepomis m Exposure time: 48 Method: Method N	
				LC50 (Oncorhynch Exposure time: 96 Method: Method N	
				LC50 (Lepomis m Exposure time: 4 d Test Type: static t Method: Method N	est
				LC50 (Cyprinodor mg/l Exposure time: 4 d Test Type: static t Method: Method N	est
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: Method N	
				LC50 (scud Gamn Exposure time: 4 o	narus sp.): 3.9 - 4.9 mg/l d
	Toxicity isms	to terrestrial organ-	:	basis (LC50 > 500	ately toxic to birds on an acute basis (LD50
				dietary LC50: > 10 Exposure time: 8 o Species: Colinus v	
				oral LD50: 216 mg Exposure time: 14 Species: Colinus v	
				contact LD50: > 1 Exposure time: 2 o Species: Apis mel	
				oral LD50: > 100 r Exposure time: 2 c Species: Apis mel	d

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### sodium 3,6-dichloro-o-anisate:

Ecotoxicology Assessment Acute aquatic toxicity	:	Harmful to aquatic life.
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
<b>Nicosulfuron:</b> Toxicity to fish	:	Remarks: Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).
		Remarks: Material is very toxic to aquatic organisms (LC50/EC50/IC50 below 1 mg/L in the most sensitive species).
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h Test Type: static test Method: US EPA Test Guideline OPP 72-1 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h Test Type: static test Method: US EPA Test Guideline OPP 72-2 GLP: yes
		NOEC (Daphnia magna (Water flea)): 43 mg/l
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 71.17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes
		EbC50 (Anabaena flos-aquae (cyanobacteria)): 41.8 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.3. GLP: yes
		ErC50 (Anabaena flos-aquae (cyanobacteria)): 59.8 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.3. GLP: yes
		EC50 (Lemna gibba (duckweed)): 0.0032 mg/l Exposure time: 7 d Method: US EPA Test Guideline OPP 122-2 & 123-2 GLP: yes

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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M-Factor icity)	(Acute aquatic tox-	:	100	
Toxicity to icity)	o fish (Chronic tox-	:	NOEC: 24 mg/l Exposure time: 90 Species: Oncorhy Test Type: Early l Method: OECD To GLP: yes	nchus mykiss (rainbow trout) Life-Stage
	o daphnia and other vertebrates (Chron-	:	NOEC: 43 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: Static-Renewal Method: OECD Test Guideline 202 GLP: yes	
	(Chronic aquatic	:	10	
toxicity) Toxicity to isms	o terrestrial organ-	:		0 mg/kg virginianus (Bobwhite quail) Test Guideline OPP 71-1
			oral LD50: 0.050 Exposure time: 48 Species: Apis me Method: OECD To GLP:yes	3 h Ilifera (bees)
			oral LD50: > 100 Exposure time: 48 Species: Apis me Method: OECD To GLP:yes	3 h Ilifera (bees)
	ology Assessment uatic toxicity	:	Very toxic to aqua	atic life
	quatic toxicity	:		atic life with long lasting effects.
			.,	
Rimsulfu Toxicity to		:	LC50 (Oncorhync Exposure time: 96 Method: OECD To GLP: yes	

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		to daphnia and other invertebrates	:	EC50 (Daphnia (w Exposure time: 48 Test Type: static to Method: OECD Te GLP: yes	est
	Toxicity plants	to algae/aquatic	:	EbC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te GLP: yes	
				ErC50 (Pseudokin mg/l Exposure time: 48 Method: OECD Te GLP: yes	
				End point: Frond Exposure time: 14	ba (duckweed)): 0.023 mg/l d Test Guideline OPP 122-2 & 123-2
				End point: Biomas Exposure time: 14	
				Exposure time: 96	flos-aquae (cyanobacteria)): 5.2 mg/l h Test Guideline OPPTS 850.5400
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 110 mg/l Exposure time: 90 Species: Oncorhy Test Type: Early L Method: OECD Te GLP: yes	nchus mykiss (rainbow trout) ife-Stage
		invertebrates (Chron-	:	NOEC: 0.82 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te GLP: yes	magna (Water flea)
	Toxicity ganism	r to soil dwelling or- s	:	LC50: 1,000 mg/k Species: Eisenia f Method: OECD Te GLP:yes	etida (earthworms)

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Toxici isms	ity to terrestrial organ-	:		0 mg/kg virginianus (Bobwhite quail) Test Guideline OPP 71-1
				0 mg/kg atyrhynchos (Mallard duck) Test Guideline OPP 71-1
			dietary LC50: > 5, Exposure time: 8 Species: Colinus Method: OECD To	d virginianus (Bobwhite quail)
			dietary LC50: > 5, Exposure time: 8 Species: Anas pla Method: OECD To	d atyrhynchos (Mallard duck)
			contact LD50: 1,0 Species: Apis me Method: OEPP/El GLP:yes	
			oral LD50: 1,000 Species: Apis me Method: OEPP/El	
Ecoto	oxicology Assessment			
Acute	aquatic toxicity	:	Very toxic to aqua	atic life.
Chror	nic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
ethyl	5,5-diphenyl-2-isoxazo	oline	e-3-carboxylate:	
Toxic	ity to fish	:	LC50 (Oncorhync End point: mortali Exposure time: 96 Test Type: flow-th	ĥ
			LC50 (Lepomis m End point: mortali Exposure time: 96 Test Type: flow-th	ĥ
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
M-Fac toxicit	ctor (Chronic aquatic y)	:	1	

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	Benzei	nesulfonic acid, mono	o-C'	11-13-branched al	lkyl derivs., sodium salts:
		<i>i</i> to fish	:		nfish (Lepomis macrochirus)): 1.67 mg/l
		to daphnia and other invertebrates	:	Exposure time: 48	
	Toxicity plants	∕ to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 37 2 h
	M-Fact icity)	or (Acute aquatic tox-	:	1	
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC: 0.23 mg/l Species: Rainbow	v trout (Salmo gairdneri)
		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 1.18 mg/l Exposure time: 2 <sup>7</sup> Species: Daphnia	
12.2	2 Persis	tence and degradabil	ity		
	Compo	onents:			
		<b>ilfuron:</b> radability	:	Result: Not biode	gradable
	<b>Rimsu</b> Biodeg	<b>lfuron:</b> radability	:	Result: Not biode	gradable
		n <b>esulfonic acid, mon</b> o radability	o-C <sup>7</sup> :	11-13-branched al Result: Not biode	l <b>kyl derivs., sodium salts:</b> gradable
12.3	Bioaco	cumulative potential			
	Compo	onents:			
	Dicam Partitio octanol	n coefficient: n-	:	tween 0 and 50). Bioconcentration log Pow: -1.69 - 3	
				Method: Estimate	d.
		<b>n 3,6-dichloro-o-anisa</b> n coefficient: n- /water	ate: :	Remarks: No rele	evant data found.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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	Nicosu	llfuron:			
		umulation	:	Remarks: Does r	ot bioaccumulate.
	Partitio octanol	n coefficient: n- /water	:	log Pow: -1.15 Method: Estimate Remarks: Biocon Pow < 3).	ed. centration potential is low (BCF < 100 or Log
	Rimsu	lfuron:			
	Bioacci	umulation	:	Remarks: Does r	ot bioaccumulate.
	Partitio octanol	n coefficient: n- /water	:	Remarks: No rele	evant data found.
	ethyl 5	,5-diphenyl-2-isoxaz	olin	e-3-carboxylate:	
	Partitio octanol	n coefficient: n- /water	:	log Pow: 3.8 (30	°C)
	Benzei	nesulfonic acid, mon	o-C	11-13-branched a	lkyl derivs., sodium salts:
	Bioacci	umulation	:	Bioconcentration	factor (BCF): 0.5
	Partitio octanol	n coefficient: n- /water	:	log Pow: 0 (20 °C pH: 5.8	;)
	Barder	n Clav:			
		n coefficient: n-	:	Remarks: Partitio ble.	ning from water to n-octanol is not applica-
12.4	Mobilit	y in soil			
	Compo	onents:			
	Dicaml	ba:			
		ition among environ- compartments	:	Koc: 0 - 470	
	sodiun	n 3,6-dichloro-o-anis	ate:		
		ition among environ- compartments	:	Remarks: No rele	evant data found.
	Nicosu	Ilfuron:			
		ition among environ- compartments	:	Koc: 33 - 51 Remarks: Under potential of mobil	actual use conditions the product has a low ity in soil.
12.5	Result	s of PBT and vPvB a	sse	ssment	
	Produc	<b></b>			
	Assess		:	This substance/m	nixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

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				0.1% or higher.		
	<u>Compo</u>	onents:				
	sodiun	n 3,6-dichloro-o-ani	sate:			
	Assess	•	:	This substance h cumulation and to	as not been assessed for persistence, bioac- oxicity (PBT).	
	Nicosı	Ilfuron:				
	Assess	ment	:		persistent, bioaccumulative, and toxic e is not very persistent and very bioaccumu-	
	Rimsu	lfuron:				
	Assessment		:	Substance is not persistent, bioaccumulative, and toxic (PBT) Substance is not very persistent and very bioaccumulative (vPvB).		
	Barder	n Clay:				
	Assess	-	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT) This substance is not considered to be nd very bioaccumulating (vPvB).	
12.6	Endoc	rine disrupting prop	pertie	S		
	Produc	ot:				
	Assess	ment	:	ered to have end REACH Article 5	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.	
12.7	Other	adverse effects				
	<u>Produc</u> Additio mation	<u>ct:</u> nal ecological infor-	:	No other ecologic	cal effects to be specially mentioned.	
	Compo	onents:				
	sodiun	n 3,6-dichloro-o-ani	sate:			
	Ozone	Depletion Potential	:		ubstance is not on the Montreal Protocol list at deplete the ozone layer.	
		Ilfuron: Depletion Potential	:		ubstance is not on the Montreal Protocol list at deplete the ozone layer.	

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	ulfuron: e-Depletion Potential		s substance is not on the Montreal Protocol list s that deplete the ozone layer.
	en Clay: e-Depletion Potential		s substance is not on the Montreal Protocol list s that deplete the ozone layer.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product

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

### **SECTION 14: Transport information**

14.1 UN number or ID number		
ADR	:	UN 3077
RID	:	UN 3077
IMDG	:	UN 3077
ΙΑΤΑ	:	UN 3077
14.2 UN proper shipping name		
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Nicosulfuron)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Nicosulfuron)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Nicosulfuron)
ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s. (Nicosulfuron)

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14.3	Trans	port hazard class(es)			
				Class	Subsidiary risks
	ADR		:	9	
	RID		:	9	
	IMDG		:	9	
	ΙΑΤΑ		:	9	
14.4	Packi	ng group			
	Classif Hazaro Labels	g group fication Code d Identification Number I restriction code	:	III M7 90 9 (-)	
	Classif	ng group fication Code d Identification Number	:	III M7 90 9	
	IMDG Packin Labels EmS C Remar	Code	:	III 9 F-A, S-F Stowage category	у А
	Packin aircraf Packin	g instruction (LQ)	:	956 Y956 III Miscellaneous	
	IATA ( Packin ger air Packin	Passenger) g instruction (passen- craft) g instruction (LQ) g group	:	956 Y956 III Miscellaneous	
14.5	Enviro	onmental hazards			
		nmentally hazardous	:	yes	
		nmentally hazardous	:	yes	
	<b>IMDG</b> Marine	pollutant	:	yes(Nicosulfuron)	)

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#### 14.6 Special precautions for user

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.

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.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	ENVIRONMENTAL HAZARDS

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.

### **SECTION 16: Other information**

#### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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#### Full text of H-Statements

H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H332	:	Harmful if inhaled.
H400	:	Very toxic 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 abbreviation	ons	
Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
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
IE OEL	:	Ireland. List of Chemical Agents and Carcinogens with Occu-
		pational Exposure Limit Values - Code of Practice, Schedule 1 and 2
2004/37/EC / TWA		Long term exposure limit
IE OEL / OELV - 8 hrs (TWA)	:	
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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.

EC-Number - European Community number REACH - Regulation (EC) No 1907/2006 of the European Parliament and of Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

Further information				
e:	Classification procedure:			
H319	Based on product data or assessment			
H317	Calculation method			

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



## **Principal Forte**

Version	Revision Date:	SDS Number:	Date of last issue: 04.06.2024
1.1	04.03.2025	800080006238	Date of first issue: 04.06.2024
•	ic Acute 1	H400	Based on product data or assessment
	ic Chronic 1	H410	Based on product data or assessment

Product code: GF-3967

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