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## 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 Great Britain 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-6G2	22

#### 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 Ltd CPC2 CAPITAL PARK FULBOURN CAMBRIDGE - England - CB21 5XE UNITED KINGDOM Customer Information : +44 1462 457272

	-	T44 1402 457272
Number		
E-mail address	:	SDS@corteva.com

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

+44 161 88 41235

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

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) N	o 1272/2008) as	amended by	<b>GB-CLP Regulat</b>	ion, UK
SI 2019/720, and UK SI 2020/1567)				

Acute toxicity, Category 4	H302: Harmful if swallowed.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
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Sho	rt-term (acute) aquatic h 1	naza	rd, Cate-	H400: Very toxic to aquatic life.
	g-term (chronic) aquatic	haz	ard, Cat-	H410: Very toxic to aquatic life with long lasting effects.
2.2 Labe	l elements			
	elling (REGULATION ( 9/720, and UK SI 2020/	08) as amended by GB-CLP Regulation, UK SI		
Haz	ard pictograms	:	FR	
Sign	al word	:	Danger	<b>v v</b>
Haz	ard statements	:	H317 M H318 Ca	rmful if swallowed. y cause an allergic skin reaction. uses serious eye damage. ry toxic to aquatic life with long lasting effects.
Prec	autionary statements	:	Preventio	
				<ul> <li>bid breathing dust.</li> </ul>
				ish skin thoroughly after handling. bid release to the environment.
				ar protective gloves/ eye protection/ face protection.
			Response	
			with water sent and e POISON (	51 + P338 + P310 IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if pre- asy to do. Continue rinsing. Immediately call a ENTER/ doctor. llect spillage.
			Disposal:	
			waste disp	pose of contents/container to a licensed hazardous- osal contractor or collection site except for empty iners which can be disposed of as non-hazardous
	ardous components whi mba (ISO)	ich n	nust be liste	on the label:

dicamba (ISO) 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.

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#### 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.

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. Registration number	Classification	Concentration (% w/w)
dicamba (ISO)	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	3.22



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	enesulfonic acid, mon ched alkyl derivs., sod		68608-89-9 271-808-0	M-Factor (Acute aquatic toxicity): 1Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411M-Factor (Acute aquatic toxicity): 1
Subst	tances with a workpla	ce exposure	e limit :	
Barde	en Clay		1332-58-7 310-194-1	>= 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 :	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a poison control center or doctor for treatment advice.
In case of skin contact :	Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Wash contaminated clothing before re-use.
In case of eye contact :	Hold eye open and rinse slowly and gently with water for 15- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed :	Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physi- cian or poison control center. Never give anything by mouth to an unconscious person.

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				Call a poison con	trol center or doctor for treatment advice.
4.2 M	Most im	portant symptoms a	nd e	effects, both acute	e and delayed
	Sympto		:	No cases of huma	an intoxication are known and the symptoms itoxication are not known.
4.3 I	ndicati	on of any immediate	me	dical attention and	d special treatment needed
	Treatm	-	:	Treat symptomat	-
SEC	CTION	5: Firefighting mea	sur	es	
516	Extinau	ishing media			
	-	e extinguishing media	:	Water spray	
		<u>j</u>		Alcohol-resistant	foam
	Unsuita media	able extinguishing	:	Dry chemical	
5.2 \$	Special	hazards arising from	the	e substance or mi	xture
	-	c hazards during fire-	:	Exposure to com Applying foam wi gas that can be tr	bustion products may be a hazard to health. I release significant amounts of hydrogen apped under the foam blanket. off from fire fighting to enter drains or water
	Hazard ucts	lous combustion prod-	:	tion to combustio be toxic and/or irr	ucts may include and are not limited to:
53/	Advica	for firefighters			
		I protective equipment	:		e, wear self-contained breathing apparatus. tective equipment.
	Specifi ods	c extinguishing meth-	:	tents. Most fire ex lution, and once to ventilated or confision if ignited. Remove undama so. Evacuate area. Use extinguishing cumstances and	nguishing medium to contact container con- tinguishing media will cause hydrogen evo- he fire is put out, may accumulate in poorly ined areas and result in flash fire or explo- ged containers from fire area if it is safe to do g measures that are appropriate to local cir- the surrounding environment.
	Further	rinformation	:		ated fire extinguishing water separately. This

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		Fire residues a	scharged into drains. Ind contaminated fire extinguishing water must in accordance with local regulations.
SECTION	N 6: Accidental rele	ase measures	
6.1 Perso	nal precautions, prot	ective equipment an	d emergency procedures
Perso	onal precautions	Use appropriat	nation.
6.2 Enviro	onmental precautions	i	
		respective auth Discharge into Prevent further Retain and dis Local authoritie cannot be cont Prevent from e	the environment must be avoided. I leakage or spillage if safe to do so. pose of contaminated wash water. es should be advised if significant spillages
6.3 Metho	ods and material for c	ontainment and clea	ining up
Methods for cleaning up		posal of this ma employed in. Pick up and an Recovered ma The vent must with spilled ma pressurization Keep in suitabl Sweep up or va tainer for dispo	al regulations may apply to releases and dis- aterial, as well as those materials and items range disposal without creating dust. terial should be stored in a vented container. prevent the ingress of water as further reaction terials can take place which could lead to over- of the container. e, closed containers for disposal. acuum up spillage and collect in suitable con- isal. 3, Disposal Considerations, for additional infor-

### 6.4 Reference to other sections

### **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 be employed in any process in which this mixture is being

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Hygiene measures		:	used. Provide sufficient air exchange and/or exhaust in work ro Avoid formation of respirable particles. Do not breathe vapours/dust. Do not smoke. Handle in accordance with good industrial hygiene and sa practice. Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the plication area. Do not get on skin or clothing. Avoid inhalation of vapour or mist. Do not get in eyes. Avoid contact with skin and eyes. Take care to prevent spills, waste and minimize release t environment. Use appropriate safety equipment. For additional informa refer to Section 8, Exposure Controls and Personal Prote Handle in accordance with good industrial hygiene and sa practice. Regular cleaning of equipment, work area and of ing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Was hands and face before breaks and immediately after hand		
7.2 C	Conditi	ons for safe storage,	inc	luding any incom	patibilities
		ements for storage and containers	:	must be carefully age. Keep in prop	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	Long-term expo- sure limit (8-hour TWA reference period) (Respira- ble dust)	2 mg/m3	GB EH40



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		Long term exp sure limit (Res pirable dust)		2004/37/EC		
	Further information: Carcinogens or mutagens					

### Derived No Effect Level (DNEL):

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):

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

Use only with adequate ventilation.

### Personal protective equipment

Eye/face protection		Use chemical goggles. Wear safety glasses with side shields. 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	:	Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("ni-trile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
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	:	Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

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

#### 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	- SICAI AN : : : :	solid No color information provided No odor information provided No data available
рН	:	7
Melting point/range	:	No data available
Freezing point		Not applicable
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	No data available
Upper explosion limit / Up flammability limit	per :	Not applicable
Lower explosion limit / Lo flammability limit	wer :	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Bulk density	:	0.66 kg/m3 0.6 kg/m3
Solubility(ies) Water solubility Auto-ignition temperature	:	No data available Not applicable
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
9.2 Other information		
Surface tension	:	No data available

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### **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

2

### **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 toxicological effects

Acute toxicity		
Components:		
dicamba (ISO): Acute oral toxicity	:	LD50 (Rat): 1,040 - 1,707 mg/kg
Acute inhalation toxicity	adverse Dust may and throa	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 Test atmosphere: dust/mist

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		LC50 (Rat): 4 Exposure tim Test atmospl			
Acute	e dermal toxicity	: LD50 (Rabbi	t): > 2,000 mg/kg		
Nicos	sulfuron:				
Acute	e oral toxicity		> 5,000 mg/kg EPA Test Guideline OPP 81-1		
Acute	inhalation toxicity	Exposure tim Test atmospl Method: US	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 inhala- tion toxicity		
Acute	e dermal toxicity	Method: US	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		> 5,000 mg/kg ctive 67/548/EEC, Annex V, B.1.		
Acute	inhalation toxicity	Method: Dire Symptoms: N			
Acute	e dermal toxicity	Method: Dire Symptoms: N	t): > 2,000 mg/kg ective 67/548/EEC, Annex V, B.3. No deaths occurred at this concentration. : The substance or mixture has no acute dermal		
ethyl	5,5-diphenyl-2-isoxa	azoline-3-carboxyla	te:		
Acute	e oral toxicity	: LD50 (Rat, n	nale and female): 1,740 mg/kg		
Acute	inhalation toxicity	Exposure tim Test atmosp	nale and female): 5.04 mg/l ne: 4 h here: dust/mist No deaths occurred at this concentration.		
Acute	e dermal toxicity		nale and female): > 2,000 mg/kg No deaths occurred at this concentration.		
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Benz	enesulfonic acid, m			alkyl derivs., sodium salts:
Acute	oral toxicity	: LD5	0 (Rat, mal	e and female): 520 mg/kg
Acute	e dermal toxicity	Met	nod: OECD	e and female): > 1,000 - < 1,600 mg/kg Test Guideline 402 imilar material(s):
Barde	en Clay:			
Acute	oral toxicity	: LD5	0 (Rat): > 5	,000 mg/kg
Skin	corrosion/irritation			
<u>Com</u>	oonents:			
Nicos	sulfuron:			
Speci		: Rab		
Metho				Buideline OPP 81-5
Resu	Л	: No s	skin irritatior	n
Rims	ulfuron:			
Speci		: Rab		
Metho Resul			ctive 67/548 skin irritatior	8/EEC, Annex V, B.4.
				alkyl derivs., sodium salts:
Speci Resul		: Rab		
Resu	I	: Skin	irritation	
Barde	en Clay:			
Speci		: Rab		
Resu	lt	: No s	skin irritation	n
Serio	us eye damage/eye	irritation		
Com	ponents:			
dican	nba (ISO):			
Resu	lt	: Corr	osive	
Nicos	sulfuron:			
Speci		: Rab	bit	
Metho	bd	: US I	EPA Test G	Guideline OPP 81-4
Resu	lt	: No e	eye irritatior	1
Rims	ulfuron:			
Speci	es	: Rab	bit	
			10/01	
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Metho Resul		<ul><li>Directive 67/548/EEC, Annex V, B.5.</li><li>No eye irritation</li></ul>
		ono-C11-13-branched alkyl derivs., sodium salts:
Specie		: Rabbit
Metho Resul		: OECD Test Guideline 405 : Corrosive
Barde	en Clay:	
Specie	-	: Rabbit
Result		: No eye irritation
Respi	iratory or skin sens	tisation
<u>Comp</u>	oonents:	
dicarr	nba (ISO):	
Rema	rks	: Did not cause allergic skin reactions when tested in guinea pigs.
Rema	rks	: For respiratory sensitization: No relevant data found.
Nicos	sulfuron:	
Test T	Гуре	: Buehler Test
Specie		: Guinea pig
Metho		: US EPA Test Guideline OPP 81-6
Resul	t	: Did not cause sensitisation on laboratory animals.
Rims	ulfuron:	
Test T	Гуре	: Maximisation Test
Specie		: Guinea pig
Metho		: OECD Test Guideline 406
Resul	t	: Does not cause skin sensitisation.
-	· • •	azoline-3-carboxylate:
Specie		: Guinea pig
Asses	sment	: The product is a skin sensitiser, sub-category 1B.
Benze	enesulfonic acid, m	ono-C11-13-branched alkyl derivs., sodium salts:
Test T		: Maximisation Test
Specie		: Guinea pig
	sment	Does not cause skin sensitisation.
Asses		: OECD Test Guideline 406
Asses Metho		· For akin appaitization:
Asses		: For skin sensitization:
Asses Metho		<ul> <li>For skin sensitization:</li> <li>For similar material(s):</li> <li>Did not cause allergic skin reactions when tested in guinea</li> </ul>

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Remarks		:	: For respiratory sensitization: No relevant data found.			
Germ	cell mutagenicity					
<u>Comp</u>	oonents:					
dicam	nba (ISO):					
Germ sessm	cell mutagenicity- As- nent	:		toxicity studies were negative in some case other cases., Animal genetic toxicity studies		
Nicos	ulfuron:					
Germ sessm	cell mutagenicity- As- nent	:	In vitro genetic	toxicity studies were negative.		
Rims	ulfuron:					
	cell mutagenicity- As-	:		ial or mammalian cell cultures did not show ts., Animal testing did not show any mutage		
sessm	lent		effects.			
		io-C1	effects.	alkyl derivs., sodium salts:		
Benze	enesulfonic acid, mon cell mutagenicity- As-	io-C1 :	effects.	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests		
Benze Germ sessm	enesulfonic acid, mon cell mutagenicity- As-	io-C1 :	effects.	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests		
Benze Germ sessm Carcin	enesulfonic acid, mon cell mutagenicity- As- nent	io-C1 :	effects.	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests		
Benze Germ sessm Carcin <u>Comp</u>	enesulfonic acid, mon cell mutagenicity- As- nent nogenicity	io-C1 :	effects.	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests		
Benze Germ sessm Carcin <u>Comp</u> Nicos	enesulfonic acid, mon cell mutagenicity- As- nent nogenicity ponents:	io-C1 :	effects. 1-13-branched In vitro genetic showed mutage	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests		
Benze Germ sessm Carcin Carcin Nicos Carcir ment Rimso	enesulfonic acid, mon cell mutagenicity- As- nogenicity ponents: sulfuron: nogenicity - Assess-	:	effects. 1-13-branched In vitro genetic showed mutage	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests enic effects		
Benze Germ sessm Carcin Carcin Nicos Carcir ment Rimso	enesulfonic acid, mon cell mutagenicity- As- nent nogenicity ponents: sulfuron: nogenicity - Assess-	:	effects. 1-13-branched In vitro genetic showed mutage Did not cause c	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests enic effects		
Benze Germ sessm Carcin Carcin Micos Carcir ment Rimse Carcir ment	enesulfonic acid, mon cell mutagenicity- As- nogenicity ponents: sulfuron: nogenicity - Assess-	:	effects. <b>1-13-branched</b> In vitro genetic is showed mutage Did not cause c Did not cause c	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests enic effects ancer in laboratory animals.		
Benze Germ sessm Carcin Carcin Micos Carcir ment Rimsu Carcir ment ethyl	enesulfonic acid, mon cell mutagenicity- As- nogenicity ponents: sulfuron: nogenicity - Assess- ulfuron: nogenicity - Assess-	:	effects. 1-13-branched In vitro genetic showed mutage Did not cause c Did not cause c -3-carboxylate:	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests enic effects ancer in laboratory animals.		
Benze Germ sessm Carcin Carcin Micos Carcir ment Carcir ment ethyl Carcir ment Barde	enesulfonic acid, mon cell mutagenicity- As- nent nogenicity oonents: sulfuron: nogenicity - Assess- ulfuron: nogenicity - Assess- 5,5-diphenyl-2-isoxaz nogenicity - Assess-	: : oline	effects. 1-13-branched In vitro genetic showed mutage Did not cause c Did not cause c -3-carboxylate:	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests enic effects ancer in laboratory animals.		
Benze Germ sessm Carcin Carcin Micos Carcir ment Carcir ment ethyl Carcir ment Barde	enesulfonic acid, mon cell mutagenicity- As- nogenicity ponents: sulfuron: nogenicity - Assess- ulfuron: nogenicity - Assess- 5,5-diphenyl-2-isoxaz nogenicity - Assess-	: : oline	effects. <b>1-13-branched</b> In vitro genetic is showed mutage Did not cause c Did not cause c <b>-3-carboxylate:</b> Did not cause c Animal testing c	alkyl derivs., sodium salts: toxicity studies were negative., In vivo tests enic effects ancer in laboratory animals.		

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	Repro	ductive toxicity				
	Comp	onents:				
		<b>ba (ISO):</b> ductive toxicity - As- ent	: In animal studies, did not interfere with reproduc Did not cause birth defects in laboratory animals			
	Nicosulfuron: Reproductive toxicity - As- sessment		:	In animal studies, did not interfere with reproduction., In a mal studies, did not interfere with fertility. Did not show teratogenic effects in animal experiments.		
	Rimsu	lfuron:				
	Reproc sessm	ductive toxicity - As- ent	:		did not interfere with reproduction. ects were not observed in laboratory animals.	
	ethyl 5	,5-diphenyl-2-isoxaz	olin	e-3-carboxylate:		
	Reproductive toxicity - As- sessment		: In animal studies, did not interfere with reproduction. Has been toxic to the fetus in laboratory animals at doses toxic to the mother.			
	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, sin	mixture is not classified as specific target ngle exposure.	
	Comp	onents:				
	Nicosu	ulfuron:				
	Assess	sment	:	Evaluation of ava an STOT-SE toxic	ilable data suggests that this material is not cant.	
	<b>Rimsu</b> Assess	<b>Ifuron:</b> sment	:	Available data are specific target org	e inadequate to determine single exposure gan toxicity.	
	ethyl 5	i,5-diphenyl-2-isoxaz	olin	e-3-carboxylate:		
	Assess	sment	:	Available data are specific target org	e inadequate to determine single exposure an toxicity.	

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rsion	Revision Date: 19.01.2024	SDS Number: 800080006238	Date of last issue: - Date of first issue: 19.01.2024
Benze	enesulfonic acid, m	ono-C11-13-branched a	alkyl derivs., sodium salts:
Asses	sment	: Available data an specific target or	e inadequate to determine single exposu gan toxicity.
Barde	n Clay:		
Asses	sment	: Evaluation of ava an STOT-SE tox	ailable data suggests that this material is i icant.
STOT	- repeated exposur	e	
<u>Produ</u>	<u>ct:</u>		
Asses	sment	: Evaluation of ava an STOT-RE tox	ailable data suggests that this material is icant.
Repea	ted dose toxicity		
<u>Comp</u>	onents:		
dicam	ba (ISO):		
Remar	rks		ble data, repeated exposures are not anti- ignificant adverse effects.
Nicos	ulfuron:		
Remar	rks		ble data, repeated exposures are not anti- ignificant adverse effects.
Rimsu	ılfuron:		
Remar	rks	: In animals, effec gans: Liver	ts have been reported on the following or
ethyl {	5,5-diphenyl-2-isox	zoline-3-carboxylate:	
Remar	rks	: In animals, effec gans: Liver. Kidney.	ts have been reported on the following or
Benze	enesulfonic acid, m	ono-C11-13-branched a	alkyl derivs., sodium salts:
Remar	rks	: For similar mater In animals, effec gans: spleen Heart Thymus. Liver	rial(s): ts have been reported on the following or

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1.0	19.01.2024	800080006238	Date of first issue: 19.01.2024					
Rema	arks		ssive exposure to crystalline silica may cause ressive and disabling disease of the lungs.					
Aspi	ration toxicity							
<u>Prod</u>	uct:							
Base	d on available informat	tion, aspiration hazard	could not be determined.					
Com	ponents:							
Nicos	sulfuron:							
Base	d on physical propertie	es, not likely to be an as	spiration hazard.					
Rims	sulfuron:							
Base	d on physical propertie	es, not likely to be an as	spiration hazard.					
-		zoline-3-carboxylate:						
Base	d on physical propertie	, not likely to be an aspiration hazard.						
Benz	enesulfonic acid, mo	no-C11-13-branched	alkyl derivs., sodium salts:					
Base	d on physical propertie	es, not likely to be an as	spiration hazard.					
Pard								
	en Clay: d on physical propertie	es, not likely to be an as	privation bazard					
Dase								
SECTION	SECTION 12: Ecological information							
0201101								
12.1 Toxic	city							
Prod	uct:							
Toxic	ity to fish		trout (Oncorhynchus mykiss)): 74.9 mg/l					
		Exposure time: Test Type: Stati						
			Test Guideline 203					

Toxicity to daphnia and other : aquatic invertebrates	:	EC50 (Daphnia magna): 7.14 mg/l Exposure time: 48 h Test Type: Static renewal test Method: OECD Test Guideline 202
Toxicity to algae/aquatic : plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 11.4 mg/l End point: Growth inhibition Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Information source: Internal study report

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ersion 0	Revision Date: 19.01.2024		DS Number: 0080006238	Date of last issue: - Date of first issue: 19.01.2024
			End point: Growth Exposure time: 7 Method: OECD T	d
			End point: Growth Exposure time: 7 Method: OECD T	d
Toxic ganis	ity to soil dwelling or- ms	:		B d
				8 d
Toxic isms	ity to terrestrial organ-	:	LD50: > 100 µg/b Exposure time: 48 End point: Acute Species: Apis me Method: OECD T	8 h oral toxicity
			contact LD50: > 1 Exposure time: 48 End point: Acute Species: Apis me Method: OECD T	8 h contact toxicity
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.
<u>Com</u>	ponents:			
	nba (ISO):			
Toxic	ity to fish	:		al is moderately toxic to aquatic organisms on C50/EC50 between 1 and 10 mg/L in the ecies tested).
			LC50 (Lepomis m Exposure time: 48 Method: Method I	

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				LC50 (Oncorhync Exposure time: 96 Method: Method N	
				LC50 (Lepomis m Exposure time: 4 Test Type: static t Method: Method N	rest
				LC50 (Cyprinodor mg/l Exposure time: 4 Test Type: static t Method: Method N	est
		to daphnia and other nvertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: Method N	
				LC50 (scud Gamr Exposure time: 4	marus sp.): 3.9 - 4.9 mg/l d
To isr	-	to terrestrial organ-	:	basis (LC50 > 500	ately toxic to birds on an acute basis (LD50
				dietary LC50: > 10 Exposure time: 8 Species: Colinus	
				oral LD50: 216 m Exposure time: 14 Species: Colinus	
				contact LD50: > 1 Exposure time: 2 Species: Apis me	
				oral LD50: > 100 Exposure time: 2 Species: Apis me	d
so	dium	3,6-dichloro-o-anisa	te:		
		cology Assessment		Harmful to aquetic	, life
		uatic toxicity aquatic toxicity	:	Harmful to aquation Harmful to aquation	c life with long lasting effects.
	<b>cosulf</b> oxicity t		:	Remarks: Materia	I is very highly toxic to aquatic organisms on

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				an acute basis (L0 species).	C50/EC50 <0.1 mg/L in the most sensitive
				Exposure time: 96 Test Type: static t	
		to daphnia and other invertebrates	:	Exposure time: 48 Test Type: static t	
				NOEC (Daphnia r	nagna (Water flea)): 43 mg/l
	oxicity lants	to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te GLP: yes	
				Exposure time: 96	a flos-aquae (cyanobacteria)): 41.8 mg/l 3 h 67/548/EEC, Annex V, C.3.
				Exposure time: 96	a flos-aquae (cyanobacteria)): 59.8 mg/l 5 h 67/548/EEC, Annex V, C.3.
				Exposure time: 7	ba (duckweed)): 0.0032 mg/l d Test Guideline OPP 122-2 & 123-2
	/I-Facto city)	or (Acute aquatic tox-	:	100	
	oxicity city)	to fish (Chronic tox-	:	NOEC: 24 mg/l Exposure time: 90 Species: Oncorhy Test Type: Early L Method: OECD Te GLP: yes	nchus mykiss (rainbow trout) Life-Stage
а		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 43 mg/l Exposure time: 21 Species: Daphnia Test Type: Static- Method: OECD Te	magna (Water flea) Renewal

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				GLP: yes	
	<b>``</b>		:	10	
	toxicity) Toxicity isms	to terrestrial organ-	:		0 mg/kg virginianus (Bobwhite quail) Test Guideline OPP 71-1
				oral LD50: 0.050 r Exposure time: 48 Species: Apis mel Method: OECD Te GLP:yes	3 h Ilifera (bees)
				oral LD50: > 100 r Exposure time: 48 Species: Apis mel Method: OECD Te GLP:yes	3 h Ilifera (bees)
		icology Assessment			
	Acute a	quatic toxicity	:	Very toxic to aqua	tic life.
	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
	<b>Rimsul</b> Toxicity		:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te GLP: yes	
		to daphnia and other invertebrates	:	EC50 (Daphnia (w Exposure time: 48 Test Type: static t Method: OECD Te GLP: yes	est
	Toxicity plants	to algae/aquatic	:	EbC50 (Pseudoki mg/l Exposure time: 72 Method: OECD Te GLP: yes	
				ErC50 (Pseudokir mg/l	chneriella subcapitata (green algae)): 2.8

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				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
		to daphnia and other invertebrates (Chron- y)	:	NOEC: 0.82 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te GLP: yes	magna (Water flea)
	Toxicity ganisms	to soil dwelling or-	:	LC50: 1,000 mg/kg Species: Eisenia f Method: OECD Te GLP:yes	etida (earthworms)
	Toxicity isms	to terrestrial organ-	:		) mg/kg ⁄irginianus (Bobwhite quail) Test Guideline OPP 71-1
					) mg/kg tyrhynchos (Mallard duck) Test Guideline OPP 71-1
				dietary LC50: > 5, Exposure time: 8 o Species: Colinus v Method: OECD Te	d /irginianus (Bobwhite quail)

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			dietary LC50: > 5, Exposure time: 8 Species: Anas pla Method: OECD Te	d atyrhynchos (Mallard duck)
			contact LD50: 1,0 Species: Apis me Method: OEPP/El GLP:yes	
			oral LD50: 1,000 p Species: Apis me Method: OEPP/E	
Eco	otoxicology Assessment			
	te aquatic toxicity	:	Very toxic to aqua	atic life.
Chr	onic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
eth	yl 5,5-diphenyl-2-isoxazo	olin	e-3-carboxylate:	
	icity to fish	:	-	ĥ
			LC50 (Lepomis m End point: mortali Exposure time: 96 Test Type: flow-th	ĥ
M-F icity	actor (Acute aquatic tox-	:	1	
Tox icity	icity to fish (Chronic tox-	:	NOEC: 0.42 mg/l Exposure time: 28 Species: Oncorhy Test Type: flow-th	nchus mykiss (rainbow trout)
			0.65 mg/l End point: Growth Exposure time: 28 Species: Oncorhy Test Type: flow-th	3 d mchus mykiss (rainbow trout)
aqu	icity to daphnia and other atic invertebrates (Chron- oxicity)	:	NOEC: 0.38 mg/l Exposure time: 21 Species: Daphnia Test Type: semi-s	magna (Water flea)

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Ec	otoxicology Assessment				
	Chronic aquatic toxicity		Very toxic to aqua	atic life with long lasting effects.	
Be	enzenesulfonic acid, mono	o-C'	11-13-branched a	lkyl derivs., sodium salts:	
Toxicity to fish		:	LC50 (Bluegill sunfish (Lepomis macrochirus)): 1.67 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates		:	Exposure time: 48		
	xicity to algae/aquatic ants	c : EC50 (Pseudokirchneriella subcapitata (green algae)): > mg/l Exposure time: 72 h			
M- ici	Factor (Acute aquatic tox- y)	:	1		
Tc ici	xicity to fish (Chronic tox- y)	:	NOEC: 0.23 mg/l Species: Rainbov	v trout (Salmo gairdneri)	
aq	xicity to daphnia and other uatic invertebrates (Chron- toxicity)		: NOEC: 1.18 mg/l Exposure time: 21 d Species: Daphnia magna		
12.2 Pe	ersistence and degradabil	ity			
<u>Cc</u>	omponents:				
	cosulfuron: odegradability	:		ing to the results of tests of biodegradability t readily biodegradable.	
Ri	msulfuron:				
Bio	odegradability	:	Result: Not readil	y biodegradable.	
Be	enzenesulfonic acid, mono	o-C	11-13-branched a	lkyl derivs., sodium salts:	
Bio	odegradability	:	Result: Not biode	gradable	
12.3 Bi	oaccumulative potential				
<u>Co</u>	omponents:				
di	camba (ISO):				
	rtition coefficient: n- tanol/water	:	tween 0 and 50).	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		

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#### sodium 3,6-dichloro-o-anisate: Partition coefficient: n-: Remarks: No relevant data found. octanol/water Nicosulfuron: **Bioaccumulation** Remarks: Does not bioaccumulate. • Partition coefficient: nlog Pow: -1.15 : octanol/water Method: Estimated. Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Rimsulfuron: Bioaccumulation** Remarks: Does not bioaccumulate. 5 Partition coefficient: n-Remarks: No relevant data found. : octanol/water ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate: Partition coefficient: n-: log Pow: 3.8 (30 °C) octanol/water Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., sodium salts: Bioaccumulation Bioconcentration factor (BCF): 0.5 : log Pow: 0 (20 °C) Partition coefficient: n-: octanol/water pH: 5.8 **Barden Clay:** Partition coefficient: n-1 Remarks: Partitioning from water to n-octanol is not applicaoctanol/water ble. 12.4 Mobility in soil Components: dicamba (ISO): Distribution among environ-Koc: 0 - 470 . mental compartments sodium 3,6-dichloro-o-anisate: Distribution among environ-: Remarks: No relevant data found. mental compartments Nicosulfuron: Distribution among environ-Koc: 33 - 51 : mental compartments Remarks: Under actual use conditions the product has a low potential of mobility in soil.

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12.5 Resi	Ilts of PBT and vPvB	asse	ssment		
Prod					
Asse	essment		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.		
Com	ponents:				
sodiu	um 3,6-dichloro-o-ani	sate:			
Asse	ssment	:	This substance cumulation and	has not been assessed for persistence, bioac- toxicity (PBT).	
Nicos	sulfuron:				
Asse	ssment	:	lating and toxic	is not considered to be persistent, bioaccumu- (PBT) This substance is not considered to be and very bioaccumulating (vPvB).	
Rims	sulfuron:				
Asse	ssment	:	lating and toxic	is not considered to be persistent, bioaccumu- (PBT) This substance is not considered to be and very bioaccumulating (vPvB).	
Bard	en Clay:				
	ssment	:	lating and toxic	is not considered to be persistent, bioaccumu- (PBT) This substance is not considered to be and very bioaccumulating (vPvB).	
12.6 Othe	r adverse effects				
Prod	uct:				
Endo tial	crine disrupting poten-	:	ered to have en REACH Article \$	nixture does not contain components consid- docrine disrupting properties according to 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at r higher.	
<u>Com</u>	ponents:				
	um 3,6-dichloro-o-ani	sate:			
Ozon	e-Depletion Potential	:		substance is not on the Montreal Protocol list hat deplete the ozone layer.	
Nico	sulfuron:				
Ozon	e-Depletion Potential	:		substance is not on the Montreal Protocol list nat deplete the ozone layer.	
Rims	sulfuron:				

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Ozon	e-Depletion Potential		s substance is not on the Montreal Protocol list that deplete the ozone layer.
	<b>en Clay:</b> le-Depletion Potential		s substance is not on the Montreal Protocol list that deplete the ozone layer.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product

If the material as supplied becomes a waste, follow all appli- cable regional, national and local laws.	:	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 appli-

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

14.1 UN number		
ADR	:	UN 3077
RID	:	UN 3077
IMDG	:	UN 3077
ΙΑΤΑ	:	UN 3077
14.2 UN proper sl	hipping 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	Transp	oort hazard class(es)			
				Class	Subsidiary risks
	ADR		:	9	
I	RID		:	9	
I	IMDG		:	9	
I	ΙΑΤΑ		:	9	
14.4	14.4 Packing group				
	Classifi Hazard Labels	g group cation Code Identification Number restriction code	::	III M7 90 9 (-)	
	Classifi	g group cation Code Identification Number	:	III M7 90 9	
   	<b>IMDG</b> Packing Labels EmS C Remarł		:	III 9 F-A, S-F Stowage category	γ A
 ; 	aircraft) Packing	g instruction (cargo	:	956 Y956 III Miscellaneous	
	Packing ger airc Packing	Passenger) g instruction (passen- traft) g instruction (LQ) g group	:	956 Y956 III Miscellaneous	
		nmental hazards			
	RID	mentally hazardous	:	yes 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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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

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

Relevant EU provisions transposed through retained EU law

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit-	: Not applicable : Not applicable
ain) Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer UK REACH List of substances subject to authorisation	<ul><li>Not applicable</li><li>Not applicable</li></ul>
(Annex XIV) 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

Registration Number : MAPP 20797

#### 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**

#### Full text of H-Statements

H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.

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H317 H318 H332 H400 H410 H411 H412	3 2 ) )	<ul> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Harmful if inhaled.</li> <li>Very toxic to aquatic life.</li> <li>Very toxic to aquatic life with long lasting effects.</li> <li>Toxic to aquatic life with long lasting effects.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>	
	text of other abbreviat		
Aqua Aqua Eye I Skin Skin	Sens. /37/EC	<ul> <li>Long-term (chr</li> <li>Serious eye da</li> <li>Skin irritation</li> <li>Skin sensitisat</li> <li>Europe. Direct</li> <li>from the risks r</li> <li>at work</li> </ul>	, and the second s
2004 GB E ADR EmS GHS Trans rying tiona centr Letha n.o.s zatio lutior cerni	/37/EC / TWA H40 / TWA - Agreement concerning rican Society for the Tes - Emergency Schedule - Globally Harmonized sport Association; IBC - Dangerous Chemicals I Maritime Dangerous G ation to 50 % of a test p al Dose); MARPOL - Inte not otherwise specifie n for Economic Co-oper Prevention; (Q)SAR - (	: Long term exp : Long-term exp g the International Ca sting of Materials; EC ; ErCx - Concentration System; GLP - Good International Code for n Bulk; IC50 - Half m oods; IMO - Internat opulation; LD50 - Le ernational Convention ed; NOEC - Non-Obs ation and Developmed Quantitative) Structure	

### Further information

Classification of the	mixture:	Classification procedure:
Acute Tox. 4	H302	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Based on product data or assessment

Product code: GF-3967

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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.

GB / 6N