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

1.1 Product identifier		
Trade name	:	MAXIM QUATTRO
Design code	:	A14918D

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

Use of the	:	Seed treatment
Substance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company	: Syngenta SA (Pty) Ltd P.O. Box 1044, No. 4 Krokodildrift Avenue Brits South Africa	0250
Telephone Telefax E-mail address	: +27 12 250 6300 : +27 12 250 3125 : sds.ch@syngenta.com	

1.4 Emergency telephone number

Emergency telephone	:	+27 (0) 82 446 8946 (Griffon)
number		

SECTION 2: Hazards identification 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Sub-category 1B	,
okin scholisation, ous-category TB	H317: May cause an allergic skin reaction.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction.

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	olemental Hazard ements	H410 : EUH40 environ	1 To	to aquatic life with long lasting effects. avoid risks to human health and the bly with the instructions for use.
Prec	autionary statements		Avoid brea Wear prote nse: P313 If s attention. P364 Ta	thing dust/ fume/ gas/ mist/ vapours/ spray. ective gloves. kin irritation or rash occurs: Get medical ke off contaminated clothing and wash it llage.

Hazardous components which must be listed on the label:

1,2-benzisothiazol-3(2H)-one

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
thiabendazol (ISO)	148-79-8 205-725-8 613-054-00-0	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 25 - < 30
fludioxonil	131341-86-1	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.5 - < 10
metalaxyl-M (ISO)	70630-17-0 612-163-00-0	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1 - < 3
poly(oxy-1,2-ethanediyl), -[2,4,6- tris(1-phenylethyl)phenyl] hydroxy-	99734-09-5	Aquatic Chronic 3; H412	>= 1 - < 2.5
azoxystrobin	131860-33-8 607-256-00-8	Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 0.0025 - < 0.025

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	Aquatic Acute 1;	
	H400	
Ear explanation of abbreviations and	nantion 16	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures 4.1 Description of first aid measures General advice Have the product container, label or Safety Data Sheet with : you when calling the emergency number, a poison control center or physician, or going for treatment. If inhaled Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately. In case of skin contact Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use. In case of eye contact Rinse immediately with plenty of water, also under the eyelids, : for at least 15 minutes. Remove contact lenses. Immediate medical attention is required. If swallowed If swallowed, seek medical advice immediately and show this : container or label. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	There is no specific antidote available.
		Treat symptomatically.

SECTION 5: Firefighting measures

E 1 Extinguishing modia		
5.1 Extinguishing media Suitable extinguishing media :	:	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires Alcohol-resistant foam
		or Water spray
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.

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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear full protective clothing and self-contained breathing apparatus.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Refer to protective measures listed in sections 7 and 8.
----------------------	---	--

6.2 Environmental precautions

Environmental precautions	:	Prevent further leakage or spillage if safe to do so.
		Do not flush into surface water or sanitary sewer system.
		If the product contaminates rivers and lakes or drains inform
		respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.
-------------------------	---	--

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	 No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
-------------------------	---

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	No special storage conditions required. Keep containers
areas and containers		tightly closed in a dry, cool and well-ventilated place. Keep out

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		of the reach of animal feeding	children. Keep away from food, drink and stuffs.

7.3 Specific end use(s)

Specific use(s)

: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
thiabendazol (ISO)	148-79-8	TWA (inhalable	10 mg/m3	CH SUVA
		dust)	-	
Further information	Harm to the unborn child is not to be expected when the OEL-value is			
	respected			
	148-79-8	TWA	5 mg/m3	Syngenta
fludioxonil	131341-86-	TWA	5 mg/m3	Syngenta
	1			
metalaxyl-M (ISO)	70630-17-0	TWA	5 mg/m3	Syngenta
azoxystrobin	131860-33-	TWA	4 mg/m3	Syngenta
-	8		_	

8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection	:	No special protective equipment required.

Hand protection

Material	: Nitrile rubber	•
Break through time	: > 480 min	
Glove thickness	: 0.5 mm	

Remarks

: Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. 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 conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break

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			the thickness and measured for each replaced if there is breakthrough. The selected prote	ends amongst other things on the material, the type of glove and therefore has to be h case. Gloves should be discarded and s any indication of degradation or chemical ective gloves have to satisfy the EU Directive 89/686/EEC and the standard om it.
Skin and body protection		:	concentration and the specific work-	h contaminated clothing before re-use. ate:
R	espiratory protection	 No personal respiratory protective equipment nor required. When workers are facing concentrations above t limit they must use appropriate certified respirator 		e facing concentrations above the exposure
P	rotective measures	:	over the use of pe	cal measures should always have priority ersonal protective equipment. ersonal protective equipment, seek esional advice.

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties Appearance

pearance	:	opaque, liquid
Colour Odour	:	light red Mild aromatic
Odour Threshold	:	No data available
рН	:	6.7 (25 °C) Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 101 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available

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Re	lative vapour density	:	No data available	e
De	nsity	:	1.13 g/cm3 (20 °	C)
So	lubility(ies) Solubility in other solvents	:	No data available	e
	rtition coefficient: n- anol/water	:	No data available	e
Au	to-ignition temperature	:	625 °C	
De	composition temperature	:	No data available	e
	cosity			
VISCOSII	y, dynamic	:	82.8 - 549 mPa.s	s (20 °C)
			69.4 - 501 mPa.s	s (40 °C)
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
			No data available	e
9.2 Oth	er information			
Su	rface tension	:	40.2 mN/m, 0.1 °	%
10.1 Re No	ON 10: Stability and rea activity ne reasonably foreseeable.		vity	

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions

: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid

: No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid

: None known.

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Combustio	rdous decomposition n or thermal decomposition 11: Toxicological	osition will evolve	toxic and irritant vapours.					
11.1 Information on toxicological effects								
Acute	toxicity							
Produ Acute oral		· 1 D50 (Pat	$f_{\rm complex}$, 5,000 mg/kg					
			, female): 5,000 mg/kg					
Acute	inhalation toxicity	Exposure Test atmo	sphere: dust/mist nt: The substance or mixture has no acute					
Acute	dermal toxicity		, male and female): > 5,000 mg/kg nt: The substance or mixture has no acute dermal					
<u>Comp</u> thiabenda: Acute oral			, female): > 5,000 mg/kg					
		•						
Acute	inhalation toxicity	Exposure Test atmo	sphere: dust/mist nt: The substance or mixture has no acute					
	dermal toxicity	: LD50 (Rat	, male and female): > 5,000 mg/kg					
fludio Acute oral								
		: LD50 (Rat	, male and female): > 5,000 mg/kg					
Acute	inhalation toxicity	Exposure Test atmo	sphere: dust/mist nt: The substance or mixture has no acute					
Acute	dermal toxicity		, male and female): > 2,000 mg/kg ent: The substance or mixture has no acute dermal					
metal	axyl-M (ISO):							

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LD50 (Rat, female): 375 mg/kg Acute inhalation toxicity : LC50 (Rat, male and female): > 2.29 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Highest attainable concentration Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity : LD50 Oral (Rat): 5,000 mg/kg Acute oral toxicity : LD50 Oral (Rat): 5,000 mg/kg Acute oral toxicity : LD50 Oral (Rat): 5,000 mg/kg Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 Dermal (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg Acute inhalation toxicity : LD50 (Rat, male and female): > 5,000 mg/kg Acute inhalation toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Acute inhalation toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Acute inhalation toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment	Version 7.0	Revision Date: 17.07.2017	SDS Number: S1396467671	This version replaces all previous versions.
Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Highest attainable concentration Acute dermal toxicity LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]hydroxy-: Acute oral toxicity : LD50 Oral (Rat): 5,000 mg/kg Assessment: The substance or mixture has no acute or toxicity Acute oral toxicity : LD50 Dermal (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute or toxicity Acute dermal toxicity : LD50 Dermal (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity azoxystrobin: Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg Acute inhalation toxicity : LC50 (Rat, male and female): 0.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity : LC50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity <td< td=""><td></td><td></td><td>LD50 (Rat, f</td><td>emale): 375 mg/kg</td></td<>			LD50 (Rat, f	emale): 375 mg/kg
Assessment: The substance or mixture has no acute de toxicity poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]hydroxy: Acute oral toxicity : LD50 Oral (Rat): 5,000 mg/kg Assessment: The substance or mixture has no acute or toxicity Acute dermal toxicity : LD50 Dermal (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg Assessment: The substance or mixture has no acute de toxicity Acute inhalation toxicity : LD50 (Rat, male and female): > 5,000 mg/kg Exposure time: 4 h Test atmosphere: dust/mist LC50 (Rat, male): 0.7 mg/l 	Acute	inhalation toxicity	Exposure tir Test atmosp Assessment inhalation to	ne: 4 h here: dust/mist :: The substance or mixture has no acute xicity
Acute oral toxicity : LD50 Oral (Rat): 5,000 mg/kg Assessment: The substance or mixture has no acute or toxicity Acute dermal toxicity : LD50 Dermal (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity azoxystrobin: : LD50 (Rat, male and female): > 5,000 mg/kg Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg Acute inhalation toxicity : LC50 (Rat, female): 0.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist LC50 (Rat, male): 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist ELD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity 1,2-benzisothiazol-3(2H)-one: Acute oral toxicity : Acute oral toxicity : Assessment: The component/mixture is moderately toxi single ingestion. Skin corrosion/irritation Product: :	Acute	e dermal toxicity	Assessment	
 LD50 Oral (Rat): 5,000 mg/kg Assessment: The substance or mixture has no acute on toxicity Acute dermal toxicity LD50 Dermal (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity azoxystrobin: Acute oral toxicity LD50 (Rat, male and female): > 5,000 mg/kg Acute inhalation toxicity LC50 (Rat, male and female): > 5,000 mg/kg Acute inhalation toxicity LC50 (Rat, female): 0.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist LC50 (Rat, male): 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity Acute dermal toxicity LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity Acute oral toxicity LS50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity Acute oral toxicity Assessment: The component/mixture is moderately toxi single ingestion. Skin corrosion/irritation Product: 			-[2,4,6-tris(1-phen	ylethyl)phenyl]hydroxy-:
Assessment: The substance of mixture has no acute de toxicity azoxystrobin: Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg Acute inhalation toxicity : LC50 (Rat, female): 0.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist LC50 (Rat, male): 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity 1,2-benzisothiazol-3(2H)-one: Acute oral toxicity : Assessment: The component/mixture is moderately toxi single ingestion. Skin corrosion/irritation <u>Product:</u>	Acute orai	loxicity	Assessment	
Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg Acute inhalation toxicity : LC50 (Rat, female): 0.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity : LC50 (Rat, male): 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity : LD50 (Rat, male): 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity 1,2-benzisothiazol-3(2H)-one: Assessment: The substance or mixture is moderately toxi single ingestion. Skin corrosion/irritation : Assessment: The component/mixture is moderately toxi single ingestion.	Acute	e dermal toxicity	Assessment	
 LD50 (Rat, male and female): > 5,000 mg/kg Acute inhalation toxicity LC50 (Rat, female): 0.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist LC50 (Rat, male): 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity 1,2-benzisothiazol-3(2H)-one: Acute oral toxicity Assessment: The component/mixture is moderately toxi single ingestion. 				
Exposure time: 4 h Test atmosphere: dust/mist LC50 (Rat, male): 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity 1,2-benzisothiazol-3(2H)-one: Acute oral toxicity : Assessment: The component/mixture is moderately toxi single ingestion. Skin corrosion/irritation Product:		loxicity	: LD50 (Rat, r	nale and female): > 5,000 mg/kg
Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity 1,2-benzisothiazol-3(2H)-one: Acute oral toxicity : Assessment: The component/mixture is moderately toxi single ingestion. Skin corrosion/irritation Product:	Acute	e inhalation toxicity	Exposure tir	ne: 4 h
Assessment: The substance or mixture has no acute de toxicity 1,2-benzisothiazol-3(2H)-one: Acute oral toxicity Assessment: The component/mixture is moderately toxi single ingestion. Skin corrosion/irritation Product:			Exposure tir	ne: 4 h
Acute oral toxicity : Assessment: The component/mixture is moderately toxi single ingestion. Skin corrosion/irritation <u>Product:</u>	Acute	e dermal toxicity	Assessment	
Assessment: The component/mixture is moderately toxi single ingestion. Skin corrosion/irritation Product:			one:	
Product:	Acute oral	toxicity		
	Skin	corrosion/irritation		
Species: Rabbit Result: No skin irritation	Spec	ies: Rabbit		

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Components:

thiabendazol (ISO): Species: Rabbit Result: No skin irritation

fludioxonil: Species: Rabbit Result: No skin irritation

metalaxyl-M (ISO):

Species: Rabbit Result: No skin irritation

poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-:

Species: Rabbit Result: No skin irritation

azoxystrobin: Species: Rabbit Result: No skin irritation

1,2-benzisothiazol-3(2H)-one:

Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Species: Rabbit Result: No eye irritation

Components:

thiabendazol (ISO): Species: Rabbit Result: No eye irritation

fludioxonil:

Species: Rabbit Result: No eye irritation

metalaxyl-M (ISO):

Species: Rabbit Result: Risk of serious damage to eyes.

poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-:

Species: Rabbit Result: No eye irritation

azoxystrobin:

Species: Rabbit Result: No eye irritation

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1,2-benzisothiazol-3(2H)-one:

Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Test Type: Buehler Test Species: Guinea pig Result: The product is a skin sensitiser, sub-category 1B.

Components:

thiabendazol (ISO): Species: Guinea pig Result: Did not cause sensitisation on laboratory animals.

fludioxonil:

Species: Guinea pig Result: Did not cause sensitisation on laboratory animals.

metalaxyl-M (ISO):

Species: Guinea pig Result: Did not cause sensitisation on laboratory animals.

azoxystrobin:

Species: Guinea pig Result: Did not cause sensitisation on laboratory animals.

1,2-benzisothiazol-3(2H)-one:

Result: Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Components:

thiabendazol (ISO): Germ cell mutagenicity- Assessment	:	Animal testing did not show any mutagenic effects.
fludioxonil: Germ cell mutagenicity- Assessment	:	Animal testing did not show any mutagenic effects.
metalaxyl-M (ISO):		

Germ cell mutagenicity- : Animal testing did not show any mutagenic effects. Assessment

poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-:

Germ cell mutagenicity- : In vitro tests did not show mutagenic effects

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	Assess	sment			
		trabin			
	-	strobin: cell mutagenicity- sment	:	Animal testing did	I not show any mutagenic effects.
	Carcin	ogenicity			
-		onents:			
		ol (ISO): ogenicity - sment	:	No evidence of ca	arcinogenicity in animal studies.
1	fludio>	conil:			
	Carcin Assess	ogenicity - sment	:	No evidence of ca	arcinogenicity in animal studies.
ļ	metala	ixyl-M (ISO):			
	Carcino Assess	ogenicity - sment	:	No evidence of ca	arcinogenicity in animal studies.
i	azoxys	strobin:			
	Carcine Assess	ogenicity - sment	:	No evidence of ca	arcinogenicity in animal studies.
	Repro	ductive toxicity			
		onents:			
		ol (ISO): ductive toxicity - sment	:	No toxicity to repr	oduction
ł	fludio>	conil:			
	Reproc Assess	ductive toxicity - sment	:	No toxicity to repr	oduction
l	metala	xyl-M (ISO):			
	Reproo Assess	ductive toxicity -	:	No toxicity to repr	oduction
i	azoxys	strobin:			
	Reproo Assess		:	No toxicity to repr	oduction
:	STOT	- repeated exposure			
-		onents:			
meta	laxyl-l	M (ISO):			

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Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated dose toxicity

Components:

thiabendazol (ISO):

Remarks: No adverse effect has been observed in chronic toxicity tests.

fludioxonil:

Remarks: No adverse effect has been observed in chronic toxicity tests.

azoxystrobin:

Remarks: No adverse effect has been observed in chronic toxicity tests.

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3.3 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.7 mg/l Exposure time: 48 h
Toxicity to algae	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 11.0 mg/l Exposure time: 96 h
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life., Classification of the product is based on the summation of the concentrations of classified components.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects., Classification of the product is based on the summation of the concentrations of classified components.
Components:		
thiabendazol (ISO): Toxicity to fish		
	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.55 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.81 mg/l Exposure time: 48 h
		LC50 (Americamysis bahia (Mysid shrimp)): 0.34 mg/l Exposure time: 96 h
Toxicity to algae	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 14.7 mg/l

Exposure time: 96 h

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				NOEC (Pseudokin mg/l End point: Growth Exposure time: 96	
	M-Facto toxicity)	or (Acute aquatic	:	1	
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3	sludge): > 1,000 mg/l h
	Toxicity toxicity)	to fish (Chronic	:	NOEC: 0.012 mg/ Exposure time: 69 Species: Oncorhy	
i	aquatic	to daphnia and other invertebrates c toxicity)	:	NOEC: 0.041 mg/ Exposure time: 21 Species: Daphnia	
	M-Facto toxicity)	or (Chronic aquatic	:	1	
	oxonil: city to fig	sh	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.23 mg/l δ h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.4 mg/l 3 h
	Toxicity	to algae	:	ErC50 (Pseudokir mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 0.44 6 h
				NOEC (Pseudokin mg/l Exposure time: 96	rchneriella subcapitata (green algae)): 0.132 6 h
				ErC50 (Skeletone Exposure time: 96	ema costatum (marine diatom)): 0.43 mg/l 5 h
				NOEC (Skeletone End point: Growth Exposure time: 96	
	M-Facto toxicity)	or (Acute aquatic	:	1, M-Factor=1 use	ed for transport classification
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3	sludge): > 100 mg/l h
	Toxicity toxicity)	to fish (Chronic	:	NOEC: 0.04 mg/l Exposure time: 28 Species: Oncorhy	3 d /nchus mykiss (rainbow trout)

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a	aquatic	to daphnia and other invertebrates c toxicity)	:	Exposure time: 2	
	M-Facto coxicity)	or (Chronic aquatic	:	10, M-Factor=1 u	sed for transport classification
	laxyl-N ity to fis		:	LC50 (Oncorhync Exposure time: 96	thus mykiss (rainbow trout)): > 100 mg/l ວິ h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 100 mg/l 3 h
T	Foxicity	to algae	:	ErC50 (Pseudokii Exposure time: 96	rchneriella subcapitata (algae)): 271 mg/l S h
				NOEC (Pseudokin End point: Growth Exposure time: 96	
٦	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3	sludge): > 100 mg/l h
	Toxicity oxicity)	to fish (Chronic	:	NOEC: 50 mg/l Exposure time: 28 Species: Oncorhy	3 d /nchus mykiss (rainbow trout)
a	aquatic	to daphnia and other invertebrates c toxicity)	:	Exposure time: 27	1 d magna (Water flea)
	oxy-1,2 ity to fis	2-ethanediyl), -[2,4,6-	-tris	s(1-phenylethyl)ph	nenyl]hydroxy-:
IOAIC		211	:	LC50 (Danio reric Exposure time: 96	o (zebra fish)): 21 mg/l S h
		icology Assessment aquatic toxicity	:	Harmful to aquation	c life with long lasting effects.
	ystrobi ity to fis		:	LC50 (Oncorhync Exposure time: 96	chus mykiss (rainbow trout)): 0.47 mg/l ວິ h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.28 mg/l 3 h
				EC50 (Americam) Exposure time: 96	ysis bahia (Mysid shrimp)): 0.055 mg/l S h
1	Toxicity	to algae	:	ErC50 (Pseudokii	rchneriella subcapitata (green algae)): 2 mg/l

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IVIA)	X I IVI	QUATIRO			
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				Exposure time: 9	6 h
				-	rchneriella subcapitata (green algae)): 0.038 h rate
				ErC50 (Navicula Exposure time: 9	pelliculosa (Freshwater diatom)): 0.301 mg/l 6 h
	l-Facto	or (Acute aquatic	:	10	
Тс	oxicity	to microorganisms	:	IC50 (Pseudomo Exposure time: 6	nas putida): > 3.2 mg/l h
	oxicity oxicity)	y to fish (Chronic)	:	NOEC: 0.16 mg/l Exposure time: 2 Species: Oncorhy	
				NOEC: 0.147 mg Exposure time: 33 Species: Pimepha	
ac	quatic	to daphnia and other invertebrates c toxicity)	:	NOEC: 0.044 mg Exposure time: 2 Species: Daphnia	
				NOEC: 0.0095 m Exposure time: 2 Species: America	
	I-Facto	or (Chronic aquatic)	:	10	
1,2-be	nziso	thiazol-3(2H)-one:			
E	cotox	icology Assessment			
Ad	cute a	iquatic toxicity	:	Very toxic to aqua	atic life.
12.2 P	ersist	tence and degradabil	lity		
	ndaz	o <mark>nents:</mark> ol (ISO): bility			
2.0009	Jiaaa	, , , , , , , , , , , , , , , , , , ,	:	Result: Not readil	y biodegradable.
St	tability	/ in water	:	Degradation half Remarks: Persist	
flu	udiox	onil:			
Biodeg	gradat	bility			
			:	Result: Not readil	y biodegradable.

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metal Biodegrada	axyl-M (ISO): ability	:	Result: Not readi	ly biodegradable.
Stabili	ty in water	:	Degradation half Remarks: Produc	life: 22.4 - 47.5 d ct is not persistent.
Biodegrada	r strobin: ability ty in water	:	Result: Not readi Degradation half Remarks: The su	
12.3 Bioac	cumulative potential			
thiabenda: Bioaccumu	lation	:	Remarks: Does r	not bioaccumulate.
fludio Bioaccumu	-	:	Remarks: Does r	not bioaccumulate.
	on coefficient: n- bl/water	:	log Pow: 4.12 (2	5 °C)
Bioaccumu Partiti	axyI-M (ISO): Ilation on coefficient: n- ol/water	:	Remarks: Low bi log Pow: 1.71 (25	oaccumulation potential. 5 °C)
azoxy Bioaccumu	strobin: Ilation	:	Remarks: Does r	not bioaccumulate.
12.4 Mobil				
thiabenda: Distrib	oonents: zol (ISO): pution among nmental compartments	:	Remarks: Low m	obility in soil.
Stabili	ty in soil	:	Dissipation time: Percentage dissi Remarks: Persisi	pation: 50 % (DT50)

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	fludioxonil: Distribution among environmental compartments Stability in soil		:	Remarks: immob	ile
			:	Dissipation time: 14 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.	
	Distribu	kyl-M (ISO): tion among mental compartments	:	Remarks: Metala in soil depending	xyl has a range from low to very high mobility on soil type.
	Stability	' in soil	:		< 50 d pation: 50 % (DT50) ct is not persistent.
		trobin: tion among mental compartments	:	Remarks: Azoxys	strobin has low to very high mobility in soil.
	Stability	' in soil	:		80 d pation: 50 % (DT50) ct is not persistent.
12.5 Results of PBT and vPvB as		se	ssment		
Proc	luct:				
	<u>luct:</u> essment		:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
Asse thial	<u>Compo</u> pendazo	<u>nents:</u> bl (ISO):	:	to be either persi very persistent a	stent, bioaccumulative and toxic (PBT), or
Asse thial	<u>Compo</u>	<u>nents:</u> bl (ISO):	:	to be either persi very persistent at 0.1% or higher This substance is bioaccumulating	stent, bioaccumulative and toxic (PBT), or
Asse thial Asse	<u>Compo</u> condazo essment	<u>nents:</u> bl (ISO): onil:	:	to be either persi very persistent at 0.1% or higher This substance is bioaccumulating considered to be	stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of s not considered to be persistent, and toxic (PBT) This substance is not
Asse thial Asse	<u>Compo</u> pendazo essment	<u>nents:</u> bl (ISO): onil:	:	to be either persi very persistent at 0.1% or higher This substance is bioaccumulating considered to be (vPvB) This substance is bioaccumulating	stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of s not considered to be persistent, and toxic (PBT) This substance is not
Asse thial Asse	<u>Compo</u> pendazo essment	v <u>nents:</u> bl (ISO): onil: xyl-M (ISO):	:	to be either persi very persistent at 0.1% or higher This substance is bioaccumulating considered to be (vPvB) This substance is bioaccumulating considered to be	stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of s not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating s not considered to be persistent, and toxic (PBT) This substance is not

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			ating and toxic (PBT) This substance is not to be very persistent and very bioaccumulating				
poly(oxy-1,2-ethanediyl),	-[2,4,6-tris(1-phen	ylethyl)phenyl]hydroxy-:				
Assessme	nt	bioaccumula	: This substance is not considered to be persistent, bioaccumulating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB)				
azoxy	/strobin:						
Assessme	nt	bioaccumula	nce is not considered to be persistent, ating and toxic (PBT) This substance is not to be very persistent and very bioaccumulating				
12.6 Other	r adverse effects						
No data av	vailable						
SECTION	I 13: Disposal cons	siderations					
13.1 Wast	e treatment methods	;					
Produ	ict	chemical or Do not dispo Where poss incineration.	s not practicable, dispose of in compliance with				
Conta	minated packaging	Triple rinse Empty conta handling site	aining contents. containers. ainers should be taken to an approved waste e for recycling or disposal. se empty containers.				

SECTION 14: Transport information

14.1 UN number				
ADN	:	UN 3082		
ADR	:	UN 3082		
RID	:	UN 3082		
IMDG	:	UN 3082		
ΙΑΤΑ	:	UN 3082		

:

14.2 UN proper shipping name

ADN

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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			(THIABENDAZ	ZOLE AND FLUDIOXONIL)
A	ADR		N.O.S.	
	-		•	ZOLE AND FLUDIOXONIL)
RI	J	:	N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID,
IM	DG	:	ENVIRONMEN N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID,
IA	ΓΑ	:		ly hazardous substance, liquid, n.o.s. COLE AND FLUDIOXONIL)
14.3 Tr	ansport hazard class(es)			
AD)N	:	9	
AD	R	:	9	
RI	D	:	9	
IM	DG	:	9	
IA	ТА	:	9	
14.4 Pa	cking group			
Pa Cla Ha	ADN Packing group Classification Code Hazard Identification Number Labels ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code		III M6 90 9	
AI Pa Cla Ha La			III M6 90 9 (-)	
Cla Ha	D cking group assification Code izard Identification Number bels	:	III M6 90 9	
Pa La	DG cking group bels nS Code	:	III 9 F-A, S-F	
Pa air Pa Pa	IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels		964 Y964 III Miscellaneous	

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	UQUATIKU			
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Pack (pass Pack	(Passenger) ing instruction enger aircraft) ing instruction (LQ) ing group	:	964 Y964 III Miscellaneous	
	ronmental hazards			
ADN Envir	onmentally hazardous	:	yes	
ADR Envir	onmentally hazardous	:	yes	
RID Envir	onmentally hazardous	:	yes	
IMDO Marir	i e pollutant	:	yes	
	(Passenger) le pollutant	:	yes	
	(Cargo) le pollutant	:	yes	
•	ial precautions for use	ər		
14.7 Tran	pplicable sport in bulk accordin pplicable for product as	-	-	ol and the IBC Code
	15: Regulatory info		•	
15.1 Safet mixture	ty, health and environ	nen	tal regulations/leg	islation specific for the substance or
	n (EC) No 649/2012 of t langerous chemicals	ne E	uropean Parliamer	nt and the Council concerning the export and
	CH - Candidate List of S	ube	ances of Very Lie	: Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national

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regulations, where applicable.

Youth Employment Protection Regulation (ArGV 5, SR 822 115): Adolescents up to completion of their 18th year are only allowed to come in contact or get exposed to this product at their place of work if the Federal Office for Professional Education and Technology (BBT) or the State Secretariat for Economic Affairs (SECO) has granted an exemption.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements		
H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H331	:	Toxic if inhaled.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

:	Acute toxicity
:	Acute aquatic toxicity
:	Chronic aquatic toxicity
:	Serious eye damage
:	Skin irritation
:	Skin sensitisation
	:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship;

according to Regulation (EC) No. 1907/2006



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REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the m	ixture:	Classification procedure:		
Skin Sens. 1B	H317	On basis of test data.		
Aquatic Acute 1	H400	On basis of test data.		
Aquatic Chronic 1	H410	Calculation method		

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.

CH / EN