

Version	Rev
1.1	27.

evision Date: 7.12.2021 SDS Number: S00029924612 This version replaces all previous versions.

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

1.1 Product identifier

- Trade name : SORGOMIL GOLD 600 SC
- Design code : A12002B

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

Use of the	:	Herbicide
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 0250 South Africa
Telephone	:	+27 (0)12 2506 300
Telefax	:	-
E-mail address of person responsible for the SDS	:	sds.ame@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, Category 1 Specific target organ toxicity - repeated exposure, Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H317: May cause an allergic skin reaction. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





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Signal	word	:	Warning	
Hazar	d statements		H373 May cause repeated exposure	an allergic skin reaction. damage to organs through prolonged or to aquatic life with long lasting effects.
Preca	utionary statements			athe mist or vapours. active gloves.
			P333 + P313 If s advice/ attention.	al advice/ attention if you feel unwell. kin irritation or rash occurs: Get medical ke off contaminated clothing and wash it llage.

Hazardous components which must be listed on the label:

terbuthylazine (ISO) S-metolachlor 1,2-benzisothiazol-3(2H)-one reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Index-No. Registration number		, <i>,</i> ,
terbuthylazine (ISO)	5915-41-3 227-637-9 613-323-00-2	Acute Tox. 4; H302 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 30 - < 50
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	



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S-metolachlor poly(oxy-1,2-ethanediyl), -[2,4,6- tris(1-phenylethyl)phenyl]hydroxy-	87392-12-9 607-432-00-4 104376-75-2	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 Aquatic Chronic 2; H411	>= 2,5 - < 10
ethanediol	107-21-1 203-473-3 603-027-00-1 01-2119456816-28	Acute Tox. 4; H302 STOT RE 2; H373 (Kidney)	>= 1 - < 10
poly(oxy-1,2-ethanediyl), alpha-sulfo- omega-[tris(1-phenylethyl)phenoxy]-, ammonium salt	119432-41-6	Aquatic Chronic 3; H412	>= 1 - < 2,5
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 0,025 - < 0,05
reaction mass of 5-chloro-2-methyl- 2H-isothiazol-3-one and 2-methyl- 2H-isothiazol-3-one (3:1)	55965-84-9 613-167-00-5 01-2120764691-48	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H330 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	>= 0,0002 - < 0,0015



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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

1 Description of first aid mea	
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.
.2 Most important symptoms	and effects, both acute and delayed
Symptoms	: Nonspecific No symptoms known or expected.
.3 Indication of any immediat	e medical attention and special treatment needed
Treatment	: There is no specific antidote available. Treat symptomatically.

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



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Unsi med	uitable extinguishing ia	:	Do not use a solio fire.	d water stream as it may scatter and spread
5.2 Spec	ial hazards arising from	the	e substance or mi	xture
	cific hazards during ghting	:	will produce dens products of comb	ontains combustible organic components, fire the black smoke containing hazardous ustion (see section 10). Imposition products may be a hazard to
5.3 Advid	ce for firefighters			
Spee	cial protective equipment refighters	:	Wear full protectiv apparatus.	ve clothing and self-contained breathing
Furtl	ner information	:	courses.	off from fire fighting to enter drains or water ainers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

••••••••••••••••••••••••••••••••••••••		qp
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.
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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.



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		0	not eat, drink or smoke. otection see section 8.
7.2 Condit	ions for safe storage,	, including any incon	npatibilities
Requirements for storage : areas and containers		tightly closed in	ge conditions required. Keep containers a dry, cool and well-ventilated place. Keep out hildren. Keep away from food, drink and tuffs.
•	ic end use(s) fic use(s)	· ·	safe use of this product, please refer to the ons 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 of exposure)	Control parameters	Basis	
terbuthylazine (ISO)	5915-41-3	TWA	0,8 mg/m3	Syngenta	
S-metolachlor	87392-12-9	TWA	5 mg/m3	Syngenta	
ethanediol	107-21-1	TWA OEL-RL (particulate)	10 mg/m3	ZA OEL	
	Further inform	nation: Recommende	ed Limit		
		TWA OEL-RL	10 mg/m3	ZA OEL	
		(Vapour)	_		
	Further inform	ormation: Recommended Limit			
		STEL OEL-RL (particulate)	60 mg/m3	ZA OEL	
	Further inform	nation: Recommende	ed Limit		
		STEL OEL-RL (Vapour)	125 mg/m3	ZA OEL	
	Further inform	nation: Recommende	ed Limit		
		TWA	20 ppm 52 mg/m3	2000/39/EC	
		STEL	40 ppm 104 mg/m3	2000/39/EC	

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
ethanediol	Workers	Inhalation	Long-term local effects	35 mg/m3
	Workers	Dermal	Long-term systemic effects	106 mg/kg
	Consumers	Inhalation	Long-term local effects	7 mg/m3
	Consumers	Dermal	Long-term systemic	53 mg/kg



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			effects	
1,2-benzisothiazol- 3(2H)-one	Workers	Inhalation	Long-term systemic effects	6,81 mg/m3
	Workers	Dermal	Long-term systemic effects	0,966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,345 mg/kg
reaction mass of 5- chloro-2-methyl-2H- isothiazol-3-one and 2-methyl-2H- isothiazol-3-one (3:1)	Workers	Inhalation	Local effects	0,02 mg/m3
	Consumers	Inhalation	Local effects	0,02 mg/m3
	Consumers	Oral	Systemic effects	0,09 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
ethanediol	Fresh water	10 mg/l
	Marine water	1 mg/l
	Intermittent use/release	10 mg/l
	Sewage treatment plant	199,5 mg/l
	Fresh water sediment	20,9 mg/kg
	Soil	1,53 mg/kg
1,2-benzisothiazol-3(2H)-one	Fresh water	0,00403 mg/l
	Marine water	0,000403 mg/l
	Sewage treatment plant	1,03 mg/l
	Fresh water sediment	0,0499 mg/kg
	Marine sediment	0,00499 mg/kg
	Freshwater - intermittent	0,0011 mg/l
	Marine water - intermittent	0,000110 mg/l
	Soil	3 mg/kg
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Fresh water	3,39 µg/l
	Marine water	3,39 µg/l
	Sewage treatment plant	0,23 mg/l
	Fresh water sediment	0,027 mg/kg dry weight (d.w.)
	Marine sediment	0,027 mg/kg dry weight (d.w.)
	Soil	0,01 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

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



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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 equipn Eye protection Hand protection	No special pro	otective equipment required.
Material Break through time Glove thickness	Nitrile rubber > 480 min 0,5 mm	
Remarks	does not only features and is Please observ breakthrough gloves. Also ta conditions und danger of cuts through time of the thickness measured for	re gloves. The choice of an appropriate glove depend on its material but also on other quality s different from one producer to the other. e the instructions regarding permeability and time which are provided by the supplier of the ake into consideration the specific local ler which the product is used, such as the , abrasion, and the contact time. The break epends amongst other things on the material, and the type of glove and therefore has to be each case. Gloves should be discarded and re is any indication of degradation or chemical
Skin and body protection	concentration the specific wo	vash contaminated clothing before re-use. opriate:
Respiratory protection	required. When workers limit they must	espiratory protective equipment normally are facing concentrations above the exposure use appropriate certified respirators.
Protective measures	over the use o When selectin	hnical measures should always have priority f personal protective equipment. g personal protective equipment, seek ofessional advice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour		suspension white	
Odour	:	No data available	

Odour



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C	Ddour Threshold	:	No data available	9
р	Н	:	6,0 - 8,5 Concentration: 1	% w/v
Ν	felting point/range	:	No data available	9
E	Boiling point/boiling range	:	No data available	9
F	lash point	:	No data available	9
E	evaporation rate	:	No data available	9
F	lammability (solid, gas)	:	No data available	9
	Jpper explosion limit / Upper ammability limit	:	No data available	
	ower explosion limit / Lower ammability limit	:	No data available	
V	/apour pressure	:	No data available	
F	Relative vapour density	:	No data available	
C	Density	:	1,11 - 1,12 g/cm3	3 (20 °C)
S	Solubility(ies) Water solubility Solubility in other solvents		No data available No data available	
	Partition coefficient: n-	:	No data available	9
-	octanol/water	:	No data available	9
C	Decomposition temperature	:	No data available	9
V	/iscosity Viscosity, kinematic	:	No data available	9
E	Explosive properties	:	No data available	9
C	Dxidizing properties	:	No data available	
9.2 Ot	ther information			
F	Particle size	:	No data available	9



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SECTION 10: Stability and reactivity

 10.1 Reactivity None reasonably foreseeable. 10.2 Chemical stability Stable under normal conditions 	S.	
10.3 Possibility of hazardous read	ctio	ns
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.
10.6 Hazardous decomposition p Hazardous decomposition products		ucts No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects			
Information on likely routes of exposure	:	Ingestion Inhalation Skin contact Eye contact	
Acute toxicity			
Product:			
Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method	
Components:			
terbuthylazine (ISO):			
Acute oral toxicity	:	LD50 (Rat, male and female): 1.590 mg/kg	
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 5,3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity	
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2.000 mg/kg Assessment: The substance or mixture has no acute dermal	



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			toxicity		
S-me	tolachlor:				
Acute	oral toxicity	:	LD50 (Rat, male	e and female): 2.672 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat, male and female): > 2,91 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity		
Acute	dermal toxicity	:		nale and female): > 2.000 mg/kg ne substance or mixture has no acute dermal	
ethan	ediol:				
Acute	oral toxicity	:	Assessment: Th single ingestion	e component/mixture is moderately toxic after	
1,2-be	enzisothiazol-3(2H)-c	one:			
Acute	oral toxicity	:	LD50 (Rat, male	e): 670 mg/kg	
Acute	dermal toxicity	:		e and female): > 2.000 mg/kg le substance or mixture has no acute dermal	
reacti (3:1):	ion mass of 5-chloro	-2-me	ethyl-2H-isothiaz	ol-3-one and 2-methyl-2H-isothiazol-3-one	
• •	oral toxicity	:	Assessment: Th ingestion.	e component/mixture is toxic after single	
Acute	inhalation toxicity	:	Assessment: Th term inhalation.	e component/mixture is highly toxic after short	
Acute	dermal toxicity	:	Assessment: Th single contact w	e component/mixture is highly toxic after ith skin.	
Skin	corrosion/irritation				
<u>Comp</u>	oonents:				
terbu	thylazine (ISO):				
Speci Resul	es	:	Rabbit No skin irritatior		
S-me	tolachlor:				
Speci Resul		:	Rabbit No skin irritatior	I	



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1,2-benzisothiazol-3(2H)-one:Species:Result:Mild skin irritation

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Result :	:	Corrosive after 1 to 4 hours of exposure
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Serious eye damage/eye irritation

Components:

terbuthylazine (ISO):

Species	:	Rabbit
Result	:	No eye irritation

S-metolachlor:

Species	:	Rabbit
Result	:	No eye irritation

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

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

Respiratory or skin sensitisation

Components:

terbuthylazine (ISO): Species : Result :	Guinea pig Did not cause sensitisation on laboratory animals.
S-metolachlor: Species : Result :	Guinea pig The product is a skin sensitiser, sub-category 1B.
1,2-benzisothiazol-3(2H)-one: Result :	Probability or evidence of skin sensitisation in humans
reaction mass of 5-chloro-2-me (3:1): Result	ethyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one The product is a skin sensitiser, sub-category 1A.



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Ge	erm cell mutagenicity			
Co	omponents:			
ter	buthylazine (ISO):			
Ge	erm cell mutagenicity- sessment	:	Animal testing did	I not show any mutagenic effects.
S-i	metolachlor:			
	erm cell mutagenicity- sessment	:	Animal testing did	I not show any mutagenic effects.
	2-benzisothiazol-3(2H)-on	e:		
	erm cell mutagenicity- sessment	:	Weight of evidenc cell mutagen.	e does not support classification as a germ
Ca	rcinogenicity			
<u>Co</u>	omponents:			
ter	buthylazine (ISO):			
	rrcinogenicity - sessment	:	No evidence of ca	arcinogenicity in animal studies.
	metolachlor:			
	rrcinogenicity - sessment	:	Animal testing did	I not show any carcinogenic effects.
Re	productive toxicity			
<u>Co</u>	omponents:			
ter	buthylazine (ISO):			
	productive toxicity - sessment	:	No toxicity to repr	oduction
	metolachlor:			
	productive toxicity - sessment	:	Animal testing did	I not show any effects on fertility.
ST	OT - repeated exposure			
<u>Co</u>	omponents:			
ter	buthylazine (ISO):			
	rget Organs sessment	:		stem mixture is classified as specific target organ I exposure, category 2.
eth	nanediol:			
	rget Organs sessment	:		mixture is classified as specific target organ I exposure, category 2.



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Repeated dose toxicity

Components:

S-metolachlor:

Remarks

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

SECTION 12: Ecological information

12.1 Toxicity

Components:

terbuthylazine (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2,2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Americamysis): 0,092 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 0,03 mg/l Exposure time: 72 h
		NOEC (Desmodesmus subspicatus (green algae)): 0,0011 mg/l End point: Growth rate Exposure time: 72 h
		ErC50 (Microcystis aeruginosa (blue-green algae)): 0,018 mg/l Exposure time: 96 h
		NOEC (Microcystis aeruginosa (blue-green algae)): 0,0037 mg/l End point: Growth rate Exposure time: 96 h
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,045 mg/l Exposure time: 90 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,019 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)



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M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
S-me	tolachlor:			
Toxici	ty to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 1,23 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (America Exposure time:	mysis): 1,4 mg/l 96 h
Toxici plants	ty to algae/aquatic	:	ErC50 (Raphid 0,077 mg/l Exposure time:	ocelis subcapitata (freshwater green alga)): 96 h
			NOEC (Raphid 0,016 mg/l End point: Grov Exposure time:	ocelis subcapitata (freshwater green alga)): vth rate 96 h
			EC50 (Lemna g Exposure time:	gibba (gibbous duckweed)): 0,023 mg/l 14 d
			NOEC (Lemna Exposure time:	gibba (gibbous duckweed)): 0,0076 mg/l 14 d
M-Fac toxicit	ctor (Acute aquatic y)	:	10	
Toxici toxicit	ity to fish (Chronic y)	:	NOEC: 0,03 mg Exposure time: Species: Pimer	
aquat	ty to daphnia and other ic invertebrates nic toxicity)	:	NOEC: 0,13 mg Exposure time: Species: Ameri	28 d
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
poly(oxy-1,2-ethanediyl), -[2	2,4,	6-tris(1-phenyle	thyl)phenyl]hydroxy-:
Ecoto	oxicology Assessment			
	hic aquatic toxicity	:	Toxic to aquation	c life with long lasting effects.
othan	ediol:			
	ty to microorganisms	•	EC50 (Pseudor Exposure time:	nonas putida): > 10.000 mg/l 16 h
poly(oxy-1,2-ethanediyl), alp	oha	-sulfo-omega-[t	ris(1-phenylethyl)phenoxy]-, ammonium s
Toxici	ty to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 33 mg/l 96 h



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		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 24 mg/l Exposure time: 48 h
	1 2-ber	nzisothiazol-3(2H)-on	e.	
	Toxicity	. ,	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2,18 mg/l Exposure time: 96 h
		v to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 2,94 mg/l Exposure time: 48 h
	Toxicity plants	v to algae/aquatic	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0,15 mg/l Exposure time: 72 h
				EC10 (Raphidocelis subcapitata (freshwater green alga)): 0,04 mg/l End point: Growth rate Exposure time: 72 h
	M-Factor toxicity)	or (Acute aquatic)	:	1
	Toxicity toxicity)	v to fish (Chronic)	:	NOEC: 0,3 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)
	aquatic	v to daphnia and other invertebrates ic toxicity)	:	NOEC: 1,7 mg/l Exposure time: 21 d Species: Daphnia (water flea)
	reactio (3:1):	n mass of 5-chloro-2	-me	thyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one
	Toxicity	v to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,22 mg/l Exposure time: 96 h
		v to daphnia and other invertebrates	:	EC50 (Daphnia (water flea)): 0,1 mg/l Exposure time: 48 h
	Toxicity plants	v to algae/aquatic	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0,048 mg/l Exposure time: 72 h
				NOEC (Raphidocelis subcapitata (freshwater green alga)): 0,0012 mg/l End point: Growth rate Exposure time: 72 h
				ErC50 (Skeletonema costatum (marine diatom)): 0,0052 mg/l Exposure time: 48 h



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				NOEC (Skeletone End point: Growt Exposure time: 4	
	M-Fact toxicity	or (Acute aquatic)	:	100	
	Toxicity toxicity	/ to fish (Chronic)	:	NOEC: 0,098 mg Exposure time: 2 Species: Oncorh	
	aquatic	/ to daphnia and other invertebrates ic toxicity)	:	NOEC: 0,004 mg Exposure time: 2 Species: Daphnia	1 d
	M-Fact toxicity	or (Chronic aquatic)	:	100	
12.2	Persis	tence and degradabil	ity		
	Compo	onents:			
	terbuth	ylazine (ISO):			
		radability	:	Result: Not readil	y biodegradable.
	Stabilit	y in water	:	Degradation half Remarks: Produc	life: 6 d t is not persistent.
	S-metr	blachlor:			
		radability	:	Result: Not readil	y biodegradable.
	Stability	y in water	:	Degradation half Remarks: Produc	life: 53 - 147 d t is not persistent.
	ethane	diol:			
		radability	:	Result: Readily b	iodegradable.
	1.2-bei	nzisothiazol-3(2H)-on	e:		
		radability	:	Result: rapidly de	gradable
	reactio (3:1):	on mass of 5-chloro-2	-me	ethyl-2H-isothiazo	I-3-one and 2-methyI-2H-isothiazoI-3-one
	Biodeg	radability	:	Result: Readily b	iodegradable.
12.3	Bioaco	cumulative potential			
	Compo	onents:			
	terbuth	ylazine (ISO):			
		umulation	:	Remarks: Does n	ot bioaccumulate.



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	tition coefficient: n- anol/water	:	log Pow: 3,4 (25 °	C)
	etolachlor:			
Bioa	accumulation	:	Remarks: Does no	ot bioaccumulate.
	tition coefficient: n- anol/water	:	log Pow: 3,05 (25	°C)
	benzisothiazol-3(2H)-on	e:		
Bioa	accumulation	:	Remarks: Bioaccu	imulation is unlikely.
12.4 Mo	bility in soil			
<u>Cor</u>	nponents:			
Dist env	outhylazine (ISO): ribution among ironmental compartments pility in soil	:	Remarks: Modera Dissipation time: 7 Percentage dissip Remarks: Product	77 - 169 d ation: 50 % (DT50)
S-m	netolachlor:			
env	ribution among ironmental compartments pility in soil	:	Remarks: Modera Dissipation time: 1 Percentage dissip Remarks: Product	2 - 46 d ation: 50 % (DT50)
12.5 Res	sults of PBT and vPvB as	sses		
	duct:			
	essment	:	to be either persist	ixture contains no components considered tent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
<u>Cor</u>	nponents:			
terk	outhylazine (ISO):			
	essment	:	bioaccumulating a	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating
eth	anediol:			
Ass	essment	:	bioaccumulating a	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating
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1,2-benzisothiazol-3(2H)-one: Assessment : 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).

12.6 Other adverse effects

Product:		
Endocrine disrupting potential	:	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 13: Disposal considerations

13.1 Waste treatment methods

Product	 Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	 Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERBUTHYLAZINE AND S-METOLACHLOR)
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (TERBUTHYLAZINE AND S-METOLACHLOR)



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14.3 Transport hazard class(es)

	IMDG	:	9	
	ΙΑΤΑ	:	9	
14.4	Packing group			
	IMDG Packing group Labels EmS Code	: : :	III 9 F-A, S-F	
	IATA (Cargo) Packing instruction (cargo	:	964	
	aircraft) Packing instruction (LQ) Packing group Labels	:	Y964 III Miscellaneous	
	IATA (Passenger) Packing instruction (passenger aircraft) Packing instruction (LQ) Packing group Labels	:	964 Y964 III Miscellaneous	
14.5 Environmental hazards				
	IMDG Marine pollutant	:	yes	
	IATA (Passenger) Environmentally hazardous	:	yes	
	IATA (Cargo)			

Environmentally hazardous 14.6 Special precautions for user

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

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: yes

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Other regulations: None known.



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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		
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H310	:	Fatal in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H330	:	Fatal if inhaled.
H373	:	May cause damage to organs through prolonged or repeated exposure.
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.
EUH071	:	Corrosive to the respiratory tract.
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 Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first
ZA OEL		list of indicative occupational exposure limit values South Africa. Hazardous Chemical Substances Regulations,
	•	Occupational Exposure Limits
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
ZA OEL / TWA OEL-RL	:	Long term occupational exposure limits - recommended limit
ZA OEL / STEL OEL-RL	:	Short term occupational exposure limits - recommended limit

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; AIIC - Australian Inventory of Industrial Chemicals; 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 -



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Classification procedure:

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; 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; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

		•
Skin Sens. 1	H317	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
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.

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