

Version	Revision Date:	SDS Number:
2.0	19.10.2022	S191453034

This version replaces all previous versions.

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

1.1 Product identifier	
Trade name	: SCORE
Design code	: A7402T

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

Use of the	:	Fungicide
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)

Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters
	airways.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Short-term (acute) aquatic hazard,	H400: Very toxic to aquatic life.
Category 1	
Long-term (chronic) aquatic hazard,	H410: Very toxic to aquatic life with long lasting
Category 1	effects.
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#### 2.2 Label elements

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

Hazard pictograms



Signal word

Hazard statements

: H304 May be fatal if swallowed and enters airways.



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Version 2.0	Revision Date: 19.10.2022		SDS Number: This version replaces all previous versions. S191453034
			<ul><li>H319 Causes serious eye irritation.</li><li>H410 Very toxic to aquatic life with long lasting effects.</li></ul>
Supple Stater	emental Hazard nents	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Preca	utionary statements	:	<ul><li>P102 Keep out of reach of children.</li><li>P264 Wash hands and face thoroughly after handling.</li></ul>
			Prevention:
			<ul> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> </ul>
			Response:
			<ul> <li>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P331 Do NOT induce vomiting.</li> <li>P337 + P313 If eye irritation persists: Get medical advice/ attention.</li> </ul>
			Storage:
			P405 Store locked up.
			Disposal:
			P501 Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label: hydrocarbons, C10-C13, aromatics, <1% naphthalene

#### 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.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
hydrocarbons, C10-C13, aromatics,	64742-94-5	Asp. Tox. 1; H304	>= 50 - < 70
<1% naphthalene		Aquatic Chronic 2;	
	01-2119451097-39-	H411	
	XXXX		
difenoconazole	119446-68-3	Acute Tox. 4; H302	>= 20 - < 25
		Eye Irrit. 2; H319	



JOF sion	Revision Date:	SDS Number:	This version replaces all previ	ious versions.
0.011	19.10.2022	S191453034		
			Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
	um lodecylbenzenesulphona ched	te), 68953-96-8 273-234-6 01-211996446 xxxx	Acute Tox. 4; H312 Skin Irrit. 2; H315	>= 3 - < 10
	nols, C16-18 and C18-un xylated	satd., 68920-66-1 500-236-9 01-211948940 xxxx	Skin Irrit. 2; H315 Aquatic Chronic 3; H412	>= 2,5 - < 1
2-me	ethylpropan-1-ol	78-83-1 201-148-0 603-108-00-1 01-211948460 xxxx	P9-23- Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system)	>= 1 - < 3
naph	nthalene	91-20-3 202-049-5 601-052-00-2	Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - <
tolue	ne	108-88-3 203-625-9 601-021-00-3 01-211947131 xxxx	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d 0-51- STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 Asp. Tox. 1; H304	>= 0,1 - < 1

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.



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Versio 2.0			OS Number: 91453034	This version replaces all previous versions.		
lf	inhaled	:	respiration. Keep patient wa	egular or stopped, administer artificial		
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	:	for at least 15 m Remove contact			
lf	swallowed	:	<ul> <li>If swallowed, seek medical advice immediately and show container or label.</li> <li>Do not induce vomiting: contains petroleum distillates and aromatic solvents.</li> </ul>			
4 2 Ma	et important cumptome a	nd	ffacts both cour	to and delayed		
	ost important symptoms an ymptoms	ina e :		cause pulmonary oedema and pneumonitis.		
	lication of any immediate	meo		nd special treatment needed sific antidote available.		
	eament	•	Treat symptoma	tically. omiting: contains petroleum distillates and/or		
SECT	ION 5: Firefighting measure	sur	es			
E 4 Ev	tin avvia hina ana dia					
	tinguishing media uitable extinguishing media	:	Extinguishing me Use water spray carbon dioxide. Extinguishing me Alcohol-resistan	, alcohol-resistant foam, dry chemical or edia - large fires		
	nsuitable extinguishing edia	:	Do not use a sol fire.	id water stream as it may scatter and spread		
5.2 Sp	ecial hazards arising from	the	e substance or m	ixture		
S	pecific hazards during efighting	:	As the product c will produce den products of com Exposure to dec health.	ontains combustible organic components, fire se black smoke containing hazardous bustion (see section 10). omposition products may be a hazard to		

Flash back possible over considerable distance.



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Version 2.0	Revision Date: 19.10.2022	SDS Number: S191453034	This version replaces all previous versions.
5.3 Adv	ice for firefighters		
	ecial protective equipment firefighters	: Wear full prote apparatus.	ctive clothing and self-contained breathing
Fur	ther information	courses.	in-off from fire fighting to enter drains or water ntainers exposed to fire with water spray.

#### **SECTION 6:** Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

·	Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Pay attention to flashback.
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#### **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.
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#### 6.3 Methods and material for containment and cleaning up

Methods for cleanin	g 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	: Avoid contact with skin and eyes. When using do not eat, drink or smoke.
	Use only in an area containing flame proof equipment. Take precautionary measures against static discharges.
	For personal protection see section 8.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Keep containers tightly closed in a dry, cool and well-
areas and containers		ventilated place. Keep out of the reach of children. Keep away
		from combustible material. Keep in an area equipped with
		sprinklers. Keep away from food, drink and animal



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Version 2.0	Revision Date: 19.10.2022	SDS Number: S191453034	This version replaces all previous versions.
		feedingstuffs. No	smoking.
•	<b>c end use(s)</b> c use(s)		afe use of this product, please refer to the ns 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
hydrocarbons, C10-C13, aromatics, <1% naphthalene	64742-94-5	TWA	8 ppm 50 mg/m3	Supplier
difenoconazole	119446-68- 3	TWA	5 mg/m3	Syngenta
2-methylpropan-1- ol	78-83-1	OEL-RL	100 ppm	ZA OEL
		nation: Occupational nemical Agents	Exposure Limits - Restricted	Limits For
naphthalene	91-20-3	OEL-RL	20 ppm	ZA OEL
	Further information: danger of cutaneous absorption, Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents, denotes carcinogenicity, which is based on GHS categorisation, including category 1A 1B			otes
		TWA	10 ppm 50 mg/m3	91/322/EEC
toluene	108-88-3	OEL-RL	40 ppm	ZA OEL
	Further information: danger of cutaneous absorption, Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents			onal Exposure
		TWA	50 ppm 192 mg/m3	2006/15/EC
		STEL	100 ppm 384 mg/m3	2006/15/EC

#### **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
toluene	108-88-3	Toluene: 0,02 mg/l (Blood)	Prior to last shift of workweek	ZA BEI
		Toluene: 0,03 mg/l (Urine)	End of shift	ZA BEI
		o-Cresol: 0.3 mg/g Creatinine (Urine)	End of shift	ZA BEI

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

Substance name	End Use	Exposure routes	Potential health effects	Value
castor oil, ethoxylated	Workers	Inhalation	Long-term systemic	16,4 mg/m3



Version 2.0 Revision Date: 19.10.2022

SDS Number: S191453034 This version replaces all previous versions.

			effects	
	Workers	Dermal	Long-term systemic effects	4,67 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,9 mg/m3
	Consumers	Dermal	Long-term systemic effects	1,67 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1,67 mg/kg bw/day
hydrocarbons, C10- C13, aromatics, <1% naphthalene	Workers	Inhalation	Long-term systemic effects	151 mg/m3
·	Workers	Dermal	Long-term systemic effects	12,5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	7,5 mg/kg
	Consumers	Oral	Long-term systemic effects	7,5 mg/kg
calcium bis(dodecylbenzenes ulphonate), branched	Workers	Inhalation	Long-term systemic effects	6 mg/m3
	Workers	Dermal	Long-term systemic effects	8,5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,48 mg/m3
	Consumers	Dermal	Long-term systemic effects	4,25 mg/kg
	Consumers	Oral	Long-term systemic effects	0,43 mg/kg
alcohols, C16-18 and C18-unsatd., ethoxylated	Workers	Inhalation	Long-term systemic effects	294 mg/m3
	Workers	Dermal	Long-term systemic effects	2080 mg/kg
	Consumers	Inhalation	Long-term systemic effects	87 mg/m3
	Consumers	Dermal	Long-term systemic effects	1250 mg/kg
	Consumers	Oral	Long-term systemic effects	25 mg/kg
2-methylpropan-1-ol	Workers	Inhalation	Long-term systemic effects, Long-term local effects	310 mg/m3
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	55 mg/m3
	Consumers	Oral	Long-term systemic effects, Long-term local effects	25 mg/kg
naphthalene	Workers	Inhalation	Long-term systemic effects	25 mg/m3
	Workers	Inhalation	Long-term local	25 mg/m3



Version 2.0 Revision Date: 19.10.2022

SDS Number: S191453034 This version replaces all previous versions.

			effects	
	Workers	Dermal	Long-term systemic effects	3,57 mg/kg
toluene	Workers	Inhalation	Long-term systemic effects	192 mg/m3
	Workers	Dermal	Long-term systemic effects	384 mg/kg
	Workers	Inhalation	Acute local effects	384 mg/m3
	Workers	Inhalation	Acute systemic effects	384 mg/m3
	Workers	Inhalation	Long-term local effects	192 mg/m3
	Consumers	Oral	Long-term systemic effects	8,13 mg/kg
	Consumers	Dermal	Long-term systemic effects	226 mg/kg
	Consumers	Inhalation	Acute systemic effects	226 mg/m3
	Consumers	Inhalation	Acute local effects	226 mg/m3
	Consumers	Inhalation	Long-term local effects	56,5 mg/m3
	Consumers	Inhalation	Long-term systemic effects	56,5 mg/m3

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

Substance name	Environmental Compartment	Value
castor oil, ethoxylated	Fresh water sediment	0,0129 mg/kg dry
-		weight (d.w.)
	Marine sediment	0,00129 mg/kg
		dry weight (d.w.)
	Soil	0,00258 mg/kg
		dry weight (d.w.)
calcium bis(dodecylbenzenesulphonate), branched	Fresh water	0,023 mg/l
	Marine water	0,0023 mg/l
	Intermittent use/release	0,29 mg/l
	Fresh water sediment	1,35 mg/kg
	Marine sediment	0,135 mg/kg
	Sewage treatment plant	5,5 mg/kg
	Soil	0,124 mg/kg
alcohols, C16-18 and C18- unsatd., ethoxylated	Fresh water	0,007 mg/l
	Freshwater - intermittent	0,1 mg/l
	Marine water	0,001 mg/l
	Sewage treatment plant	10 g/l
	Fresh water sediment	22,79 mg/kg
	Marine sediment	2,28 mg/kg
	Soil	1 mg/kg
2-methylpropan-1-ol	Fresh water	0,4 mg/l
	Sewage treatment plant	10 mg/l
	Soil	0,0699 mg/kg
	Marine sediment	0,152 mg/kg
	Fresh water sediment	1,52 mg/kg



VersionRevision Date:SDS Number:T2.019.10.2022S191453034	his version replaces all previous versions.
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	Marine water	0,04 mg/l
naphthalene	Fresh water	0,0024 mg/l
	Marine water	0,0024 mg/l
	Sewage treatment plant	2,9 mg/l
	Fresh water sediment	0,0672 mg/kg
	Marine sediment	0,0672 mg/kg
	Soil	0,0533 mg/kg
toluene	Fresh water	0,68 mg/l
	Marine sediment	16,39 mg/kg
	Sewage treatment plant	13,61 mg/l
	Intermittent use/release	0,68 mg/l
	Marine water	0,68 mg/l
	Fresh water sediment	16,39 mg/kg
	Soil	2,89 mg/kg

#### 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/face protection	:	Tightly fitting safety goggles Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Hand protection		
Material Break through time Glove thickness	:	Nitrile rubber > 480 min 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 through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate:



Version 2.0	Revision Date: 19.10.2022	SDS Number: S191453034	This version replaces all previous versions.
Respiratory protection		limit they must Suitable respira Respirator with The filter class maximum expe (gas/vapour/ae	hing are facing concentrations above the exposure use appropriate certified respirators. atory equipment: a half face mask for the respirator must be suitable for the ected contaminant concentration rosol/particulates) that may arise when oduct. If this concentration is exceeded, self-
Protec	tive measures	contained breat The use of tech over the use of When selecting	thing apparatus must be used. Inical measures should always have priority personal protective equipment. g personal protective equipment, seek fessional advice.

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

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

Appearance Colour Odour Odour Threshold	::	liquid yellow to brown aromatic No data available
рН	:	5 - 9 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	64 °C Method: Pensky-Martens closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1,071 g/cm3 (20 °C)
Solubility(ies) Solubility in other solvents	:	No data available



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Version 2.0	Revision Date: 19.10.2022	S Number: This version r 91453034	replaces all previous versions.
	rtition coefficient: n- tanol/water	No data available	
Au	to-ignition temperature	465 °C	
De	composition temperature	No data available	
Vis	scosity Viscosity, dynamic	26,0 mPa.s (20 °C)	
		10,5 mPa.s (40 °C)	
	Viscosity, kinematic	No data available	
Ex	plosive properties	Not explosive	
Ox	idizing properties	The substance or mixture is not	t classified as oxidizing.
9.2 Oth	er information		
Su	rface tension	36,0 mN/m, 25 °C	
Pa	rticle size	No data available	

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

SECTION 11: Toxicological in	nformation
Hazardous decomposition products	: No hazardous decomposition products are known.
10.6 Hazardous decomposition	products
Materials to avoid	: None known.
10.5 Incompatible materials	
Conditions to avoid	: No decomposition if used as directed.
10.4 Conditions to avoid	
Hazardous reactions	: No dangerous reaction known under conditions of normal use
10.3 Possibility of hazardous re	actions
Stable under normal condition	ns.
10.2 Chemical stability	
None reasonably foreseeable	9.
10.1 Reactivity	

### 11.1 Information on toxicological effects

Information on likely routes of	:	Ingestion
exposure		Inhalation
		Skin contact



SC	ORE					
Versi 2.0	ion	Revision Date: 19.10.2022		DS Number: This version replaces all previous versions. 191453034		
				Eye contact		
	Acute t	oxicity				
]	<u>Produc</u>	<u>:t:</u>				
	Acute o	ral toxicity	:	LD50 (Rat, female): 3.129 mg/kg		
Acute in		nhalation toxicity	:	LC50 (Rat, male and female): > 5,17 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is minimally toxic after short term inhalation.		
	Acute d	ermal toxicity	:	LD50 (Rat, male and female): > 5.000 mg/kg		
	Compo	onents:				
		conazole:				
	Acute o	ral toxicity	:	LD50 (Rat, male and female): 1.453 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.		
	Acute ir	nhalation toxicity	:	LC50 (Rat, male and female): > 3.300 mg/m3 Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity		
	Acute d	ermal toxicity	:	LD50 (Rabbit, male and female): > 2.010 mg/kg Assessment: The substance or mixture has no acute dermal toxicity		
	calciun	n bis(dodecylbenz	enesu	Ilphonate), branched:		
		ermal toxicity	:	LD50 (Rat, male and female): > 1.000 - 1.600 mg/kg		
:	2-meth	ylpropan-1-ol:				
	Acute o	ral toxicity	:	LD50 (Rat): 2.830 - 3.350 mg/kg		
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 24,6 mg/l Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhalation toxicity		
	Acute d	ermal toxicity	:	LD50 (Rabbit): > 2.000 - 2.460 mg/kg		
	naphth	alene:				
	-	ral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.		



#### SCORE Version **Revision Date:** SDS Number: This version replaces all previous versions. 19.10.2022 S191453034 2.0 Skin corrosion/irritation Product: Rabbit **Species** : Result No skin irritation : Result : Repeated exposure may cause skin dryness or cracking. **Components:** hydrocarbons, C10-C13, aromatics, <1% naphthalene: Result Repeated exposure may cause skin dryness or cracking. : difenoconazole: Species Rabbit ÷ Result No skin irritation ٠ calcium bis(dodecylbenzenesulphonate), branched: Result Irritating to skin. : alcohols, C16-18 and C18-unsatd., ethoxylated: Result : Irritating to skin. 2-methylpropan-1-ol: Result Irritating to skin. : toluene: **Species** Rabbit ÷ Result Irritating to skin. : Serious eye damage/eye irritation Product: **Species** Rabbit 2 Result Eye irritation : **Components:** difenoconazole: Species Rabbit · Result Irritation to eyes, reversing within 7 days ÷ calcium bis(dodecylbenzenesulphonate), branched: Result Risk of serious damage to eyes. : 2-methylpropan-1-ol: Result Risk of serious damage to eyes. :



# SCORE Version

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Vers 2.0	sion	Revision Date: 19.10.2022		DS Number: This version replaces all previous versions. 191453034
	Respir	atory or skin sensit	isatic	on
	<u>Product:</u> Species Result		:	Guinea pig Did not cause sensitisation on laboratory animals.
	Compo	onents:		
	difeno	conazole:		
	Specie: Result	5	:	Guinea pig Did not cause sensitisation on laboratory animals.
	2-meth	ylpropan-1-ol:		
	Species Result Remark		:	Guinea pig Did not cause sensitisation on laboratory animals. Information given is based on data obtained from similar substances.
	Germ o	cell mutagenicity		
	Compo	onents:		
		conazole: ell mutagenicity- ment	:	Animal testing did not show any mutagenic effects.
	Carcin	ogenicity		
	Compo	onents:		
		conazole: ogenicity - ment	:	Weight of evidence does not support classification as a carcinogen
	naphth Carcino Assess	ogenicity -	:	Limited evidence of carcinogenicity in animal studies
	Reproductive toxicity			
	Compo	onents:		
		conazole: luctive toxicity - ment	:	No toxicity to reproduction
	toluene	e: luctive toxicity -	:	Some evidence of adverse effects on development, based on animal experiments.



sion	Revision Date: 19.10.2022		DS Number: I91453034	This version replaces all previous version
STO	- single exposure			
Com	ponents:			
2-me	thylpropan-1-ol:			
Asse	ssment	:	toxicant, single irritation., The	e or mixture is classified as specific target org e exposure, category 3 with respiratory tract substance or mixture is classified as specific xicant, single exposure, category 3 with s.
tolue	ne:			
Asse	ssment	:		e or mixture is classified as specific target or exposure, category 3 with narcotic effects.
STO	- repeated exposur	e		
<u>Com</u>	ponents:			
difen	oconazole:			
Asse	ssment	:		or mixture is not classified as specific targe repeated exposure.
tolue	ne:			
	et Organs ssment	:		e system or mixture is classified as specific target org ted exposure, category 2.
Aspi	ration toxicity			
Com	ponents:			
•	ocarbons, C10-C13, be fatal if swallowed a		•	thalene:
tolue	ne:			
May I	be fatal if swallowed a	and en	ters airways.	

### 12.1 Toxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3,7 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 4,3 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 4,4 mg/l Exposure time: 72 h



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Version 2.0	Revision Date: 19.10.2022		95 Number: Th 91453034	is version replaces all previous versions.
			NOEC (Desmodesmu End point: Growth rat Exposure time: 72 h	us subspicatus (green algae)): 0,22 mg/l e
Con	nponents:			
hvd	rocarbons, C10-C13, arc	oma	tics, <1% naphthalen	e:
-	city to fish	:	LL50 (Oncorhynchus Exposure time: 96 h	mykiss (rainbow trout)): 3,6 mg/l given is based on data obtained from
	city to daphnia and other	:		a (Water flea)): 1,1 mg/l
aqu	atic invertebrates		Exposure time: 48 h Remarks: Information similar substances.	given is based on data obtained from
Toxi plan	city to algae/aquatic ts	:	mg/l End point: Growth rat Exposure time: 72 h	ubcapitata (freshwater green alga)): 7,9 e given is based on data obtained from
			0,22 mg/l End point: Growth rat Exposure time: 72 h	s subcapitata (freshwater green alga)): e given is based on data obtained from
Eco	toxicology Assessment			
	onic aquatic toxicity	:	Toxic to aquatic life w	ith long lasting effects.
dife	noconazole:			
Tox	city to fish	:	LC50 (Oncorhynchus Exposure time: 96 h	mykiss (rainbow trout)): 1,1 mg/l
	city to daphnia and other atic invertebrates	:	EC50 (Daphnia magr Exposure time: 48 h	a (Water flea)): 0,77 mg/l
			EC50 (Americamysis Exposure time: 96 h	): 0,15 mg/l
Toxi plan	city to algae/aquatic ts	:	EC50 (Navicula pellic Exposure time: 72 h	ulosa (Freshwater diatom)): 0,091 mg/l
			NOEC (Navicula pelli Exposure time: 72 h	culosa (Freshwater diatom)): 0,053 mg/l
			ErC50 (Desmodesmu mg/l	is subspicatus (green algae)): 0,0876



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Vers 2.0	ion	Revision Date: 19.10.2022		91453034	This version replaces all previous versions.
				Exposure time: 72	h
				EC10 (Desmodesi End point: Growth Exposure time: 72	
	M-Facto toxicity)	or (Acute aquatic	:	10	
	Toxicity	to microorganisms	:	EC50 (activated sl Exposure time: 3 h	
	Toxicity toxicity)	to fish (Chronic	:	NOEC: 0,0076 mg Exposure time: 34 Species: Pimepha	
	aquatic	to daphnia and other invertebrates c toxicity)	:	Exposure time: 21	
				NOEC: 0,0023 mg Exposure time: 28 Species: Americar	d
	M-Facto toxicity)	or (Chronic aquatic	:	10	
	calcium	n bis(dodecylbenzene	esu	lphonate), branche	ed:
	Ecotox	icology Assessment			
	Chronic	aquatic toxicity	:	Toxic to aquatic life	e with long lasting effects.
	alcohol	ls, C16-18 and C18-u	nsa	td., ethoxylated:	
	Toxicity	to fish	:	LC50 (Fish): estim Exposure time: 96	
		to daphnia and other invertebrates	:	EC50 (Aquatic inv Exposure time: 48	ertebrates (general)): 2,6 mg/l h
	Toxicity plants	to algae/aquatic	:	EC50 (algae): 2,3 Exposure time: 72	
				EC10 (algae): 0,33 End point: Biomas Exposure time: 72	s
	2-meth	ylpropan-1-ol:			
	Toxicity		:	LC50 (Pimephales Exposure time: 96	promelas (fathead minnow)): 1.430 mg/l h
		to daphnia and other invertebrates	:	EC50 (Daphnia pu Exposure time: 48	ilex (Water flea)): 1.100 mg/l h
	Toxicity	to algae/aquatic	:	EC50 (Raphidocel	is subcapitata (freshwater green alga)):



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Vers 2.0	sion	Revision Date: 19.10.2022		0S Number: 91453034	This version replaces all previous versions.
	plants			1.799 mg/l Exposure time: 72	2 h
	aquatic	to daphnia and other invertebrates c toxicity)	:	Exposure time: 21	l d magna (Water flea)
	naphth	alene:			
	Ecotox	icology Assessment			
		quatic toxicity		Very toxic to aqua	tic life.
	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
	toluene	):			
	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 5,5 mg/l ን h
		to daphnia and other invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 3,78 mg/l 3 h
12.2 Persistence and degradability		ity			
	Components:				
	hydroc	arbons, C10-C13, aro	ma	tics, <1% naphtha	llene:
	Biodegr	adability	:	Result: Readily bi	odegradable.
	difenoc	onazole:			
	Biodegr	adability	:	Result: Not readily	y biodegradable.
	Stability	r in water	:	Degradation half I Remarks: Produc	
	alcohol	s, C16-18 and C18-u	nea	td ethoxylated.	
		adability		Result: rapidly bic	degradable
	Diodegi	adability	•		on data from similar materials
	2-meth	ylpropan-1-ol:			
		adability	:	Result: Readily bi	odegradable.
	0	,		,	5
	toluene	:			
	Biodegr	adability	:	Result: Readily bi	odegradable.
12.3 Bioaccumulative potential					
	<u>Compo</u>	nents:			
	difenoc	onazole:			
		imulation	:	Remarks: High bio	paccumulation potential.



SC	CORE				
Vers 2.0	sion	Revision Date: 19.10.2022		0S Number: 91453034	This version replaces all previous versions.
	Partition octanol	n coefficient: n- /water	:	log Pow: 4,4 (25 °	C)
	toluene	<b>:</b>			
	Bioaccu	umulation	:	Remarks: Does no	ot bioaccumulate.
12.4	Mobilit	y in soil			
	Compo	onents:			
	difenoo	conazole:			
		ition among mental compartments	:	Remarks: Low mo	bility in soil.
	Stability	/ in soil	:	Dissipation time: 1 Percentage dissip Remarks: Product	ation: 50 % (DT50)
12.5	5 Result	s of PBT and vPvB as	ses	ssment	
	Produc	:t:			
	Assess		:	to be either persis	ixture contains no components considered tent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
	Compo	onents:			
	difenoo	conazole:			
	Assess		:	bioaccumulating a	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating
	2-meth	ylpropan-1-ol:			
	Assess		:	bioaccumulating a	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating
	naphth	alene:			
	Assess		:	bioaccumulating a	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating
	toluene	9:			
	Assess		:	bioaccumulating a	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating



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Version 2.0	Revision Date: 19.10.2022	SDS Number: S191453034	This version replaces all previous versions.					

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

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

14.1 UN number			
UNRTDG	:	UN 3082	
IMDG	:	UN 3082	
ΙΑΤΑ	:	UN 3082	
14.2 UN proper shipping name			
UNRTDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE, SOLVENT NAPHTHA)	
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE AND SOLVENT NAPHTHA)	
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (DIFENOCONAZOLE AND SOLVENT NAPHTHA)	
14.3 Transport hazard class(es)			
UNRTDG	:	9	
IMDG	:	9	
ΙΑΤΑ	:	9	



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Version 2.0	Revision Date: 19.10.2022		OS Number: 91453034	This version replaces all previous versions.
14.4 Pack	king group			
<b>UNR</b> Pack Labe	ing group	:	III 9	
Labe	ing group	:	III 9 F-A, S-F	
Pack aircra Pack	ing instruction (LQ) ing group	:	964 Y964 III Miscellaneous	
<b>IATA</b> Pack (pass Pack	( <b>Passenger)</b> ing instruction senger aircraft) ing instruction (LQ) ing group	· · ·	964 Y964 III Miscellaneous	
14.5 Envi	ronmental hazards			
<b>IMDO</b> Marir	G ne pollutant	:	yes	
	(Passenger)	:	yes	
	( <b>Cargo)</b> conmentally hazardous	:	yes	
446 0		~ -		

#### 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

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.

#### 15.2 Chemical safety assessment

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



Version	Revision Date:	SDS Number:	This version replaces all previous versions.
2.0	19.10.2022	S191453034	

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

#### **Full text of H-Statements** H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. 2 H228 Flammable solid. Harmful if swallowed. H302 May be fatal if swallowed and enters airways. H304 H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eve damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. Suspected of causing cancer. H351 H361d Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated H373 exposure. H400 Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. H410 H411 Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. H412 Full text of other abbreviations Acute Tox. Acute toxicity Aquatic Acute Short-term (acute) aquatic hazard 2 Long-term (chronic) aquatic hazard Aquatic Chronic : Asp. Tox. Aspiration hazard Carc. Carcinogenicity Eye Dam. Serious eye damage Eye irritation Eve Irrit. Flammable liquids Flam. Liq. 2 Flammable solids Flam. Sol. Repr. Reproductive toxicity Skin Irrit. Skin irritation Specific target organ toxicity - repeated exposure STOT RE STOT SE Specific target organ toxicity - single exposure 2006/15/EC Europe. Indicative occupational exposure limit values Europe. Commission Directive 91/322/EEC on establishing 91/322/EEC indicative limit values ZA BEI South Africa. The Regulations for Hazardous Chemical Agents, Biological Exposure Indices South Africa. The Regulations for Hazardous Chemical ZA OEL Agents, Occupational Exposure Limits 2006/15/EC / TWA Limit Value - eight hours 2 2006/15/EC / STEL Short term exposure limit : 91/322/EEC / TWA : Limit Value - eight hours ZA OEL / OEL-RL : Occupational Exposure Limit Restricted limit - 8- hour exposure or equivalent (12 hour shifts)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -



Version	Revision Date:	SI
2.0	19.10.2022	S

SDS Number: S191453034

This version replaces all previous versions.

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; 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 mixtur	e:	Classification procedure:
Asp. Tox. 1	H304	Calculation method
Eye Irrit. 2	H319	Based on product data or assessment
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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