

Version	Revision Date:	SDS Number:
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	PLOVER
Design code	:	A7402T
Product Registration Number	:	MAPP 17288
Unique Formula Identifier (UFI)	:	DHG3-3049-000C-6RE5

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

Use of the Substance/Mixture	:	Fungicide
Recommended restrictions on use	:	professional use

1.3 Details of the supplier of the safety data sheet

Company	:	Syngenta UK Limited CPC4, Capital Park Fulbourn, Cambridge CB21 5XE United Kingdom
Telephone	:	+44 (0) 1223 883400
Telefax	:	+44 (0) 1223 882195
E-mail address of person responsible for the SDS	:	customer.services@syngenta.com

1.4 Emergency telephone number

Emergency telephone	: +44 1484 538444
number	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1	272/2008)
Eye irritation, Category 2	H319: Causes serious eye irritation.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard,	H410: Very toxic to aquatic life with long lasting



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Categ	gory 1	effe	cts.
2.2 Label	elements		
	lling (REGULATION (I	EC) No 1272/2008)	
Hazaı	rd pictograms		! ***
Signa	l word	: Danger	• •
Hazaı	rd statements	H319 Causes	fatal if swallowed and enters airways. serious eye irritation. kic to aquatic life with long lasting effects.
	lemental Hazard ments	: EUH066 dryness or crac	Repeated exposure may cause skin king.
		EUH401 environment, co	To avoid risks to human health and th omply with the instructions for use.
Preca	utionary statements		ut of reach of children. elease to the environment.
		Prevention:	
		P280 Wear protection/ face	rotective gloves/ protective clothing/ eye protection.
		P305 + P351 + water for severa and easy to do. P337 + P313 attention.	IF SWALLOWED: Immediately call a POISON ctor/ physician. Finduce vomiting. P338 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. If eye irritation persists: Get medical advice/ spillage.
		Disposal: P501 Dispose disposal plant.	e of contents/ container to an approved waste

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.

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



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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

-			
Co	mpo	onen	ts

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not Assigned 922-153-0 01-2119451097-39	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 50 - < 70
difenoconazole	119446-68-3	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 20 - < 25
calcium bis(dodecylbenzenesulphonate), branched	68953-96-8 273-234-6 01-2119964467-24	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411 Acute toxicity estimate Acute dermal toxicity: 1,100 mg/kg	>= 3 - < 10
alcohols, C16-18 and C18- unsatd., ethoxylated	68920-66-1 500-236-9	Skin Irrit. 2; H315 Aquatic Chronic 3; H412	>= 2.5 - < 10
2-methylpropan-1-ol	78-83-1 201-148-0 603-108-00-1 01-2119484609-23	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



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napht	halene	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 - < 1
toluer	ne	108-88-3 203-625-9 601-021-00-3 01-2119471310-5	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d 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.
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: contains petroleum distillates and/or aromatic solvents.
4.2 Most important symptoms	and effects, both acute and delayed
Symptoms	: Aspiration may cause pulmonary oedema and pneumonitis.
4.3 Indication of any immedia	e medical attention and special treatment needed
Treatment	: There is no specific antidote available.



PLC Versio	VER	01		
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			Treat symptoma Do not induce v aromatic solven	omiting: contains petroleum distillates and/or
SECT	ION 5: Firefighting mea	sur	es	
5.1 Ex	tinguishing media			
S	uitable extinguishing media	:	Use water spray carbon dioxide.	edia - small fires /, alcohol-resistant foam, dry chemical or edia - large fires it foam
	nsuitable extinguishing edia	:	Do not use a so fire.	lid water stream as it may scatter and spread
5.2 Sp	ecial hazards arising fron	n the	e substance or n	nixture
	pecific hazards during efighting	:	will produce der products of com Exposure to deo health.	contains combustible organic components, fire hase black smoke containing hazardous abustion (see section 10). composition products may be a hazard to sible over considerable distance.
5.3 Ad	vice for firefighters			
	pecial protective equipment r firefighters	: :	Wear full protec apparatus.	tive clothing and self-contained breathing
F	urther information	:	courses.	n-off from fire fighting to enter drains or water tainers 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. 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 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		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, ir	ncl	uding any incompatibilities
	Requirements for storage areas and containers	:	Keep containers tightly closed in a dry, cool and well- 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 feedingstuffs. No smoking.
	Further information on storage stability	:	Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.
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 of exposure)	Control parameters	Basis
hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not Assigned	TWA	8 ppm 50 mg/m3	Supplier
difenoconazole	119446-68- 3	TWA	5 mg/m3	Syngenta
2-methylpropan-1- ol	78-83-1	TWA	50 ppm 154 mg/m3	GB EH40



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		STEL	75 ppm	GB EH40	
			231 mg/m3		
naphthalene	91-20-3	TWA	10 ppm	91/322/EEC	
			50 mg/m3		
	Further inform	nation: Indicative	· • • •		
toluene	108-88-3	TWA	50 ppm	2006/15/EC	
			192 mg/m3		
	Further inform	nation: Indicative, Ide	ntifies the possibility of signit	ficant uptake	
	through the s	kin		-	
		STEL	100 ppm	2006/15/EC	
			384 mg/m3		
	Further inform	nation: Indicative, Ide	entifies the possibility of signit	ficant uptake	
	through the s	kin		•	
		TWA	50 ppm	GB EH40	
			191 mg/m3		
	Further inform	nation: Can be absor	bed through the skin. The as	signed	
			ere are concerns that dermal		
	lead to syster	lead to systemic toxicity.			
		STEL	100 ppm	GB EH40	
			384 mg/m3		
	Further inform	Further information: Can be absorbed through the skin. The assigned			
	substances a	substances are those for which there are concerns that dermal absorption will			
	lead to syster	lead to systemic toxicity.			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
naphthalene	91-20-3	1-hydroxypyrene: 4 µmol/mol creatinine (Urine)	After shift	GB EH40 BAT

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

Substance name	End Use	Exposure routes	Potential health effects	Value
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	4.25 mg/kg



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			effects	
	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
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
calcium	Fresh water	0.023 mg/l
bis(dodecylbenzenesulphonate),		
branched		
	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



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	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
	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
	Freshwater - intermittent	0.1 mg/l
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
	Marine water	0.04 mg/l
toluene	Fresh water	0.68 mg/l
	Marine sediment	16.39 mg/kg
	Sewage treatment plant	13.61 mg/l
	Intermittent 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 protection	:	Tightly fitting safety goggles Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Equipment should conform to EN 166
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



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		danger of cuts through time d the thickness a measured for replaced if the breakthrough. The selected p	ler which the product is used, such as the , abrasion, and the contact time. The break lepends 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 protective gloves have to satisfy the of Regulation (EU) 2016/425 and the standard d from it.
Skin	and body protection	concentration the specific wo Remove and v Wear as appro	vash contaminated clothing before re-use. opriate:
Resp	iratory protection	limit they must Suitable respir Respirator with The filter class maximum exp (gas/vapour/ae handling the p	are facing concentrations above the exposure are facing concentrations above the exposure atory equipment: a particle filter (EN 143) for the respirator must be suitable for the ected contaminant concentration erosol/particulates) that may arise when roduct. If this concentration is exceeded, self- athing apparatus must be used.
	lter type ective measures	: Particulates ty : The use of tec over the use o When selectin	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Colour	:	liquid yellow to brown
Odour Odour Threshold	:	aromatic No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available



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Flas	h point	:	64 °C Method: Pensky	-Martens closed cup
Auto	o-ignition temperature	:	465 °C	
Γ	omposition temperature Decomposition emperature	:	No data availabl 5 - 9 Concentration: 1	
	osity /iscosity, dynamic	:	26.0 mPa.s (20 °	
١	/iscosity, kinematic	:	No data availabl	e
	ibility(ies) Solubility in other solvents	:	No data availabl	e
octa	ition coefficient: n- nol/water our pressure	: :	No data availabl No data available	
Den	sity	:	1.071 g/cm3 (20	°C)
Rela	ative vapour density	:	No data availabl	e
	icle characteristics Particle size	:	No data availabl	e
	r information losives	:	Not explosive	
Oxio	lizing properties	:	The substance c	r mixture is not classified as oxidizing.
Eva	poration rate	:	No data availabl	e
Mise	cibility with water	:	Miscible	
Surf	ace tension	:	36.0 mN/m, 25 °	с

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.



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10.3 Pc	ossibility of hazardous re	eacti	ons	
	azardous reactions	:		eaction known under conditions of normal use
	onditions to avoid			an if used as directed
	onditions to avoid	:	No decompositio	on if used as directed.
10.5 In	compatible materials			
Ma	aterials to avoid	:	None known.	
10.6 Ha	azardous decomposition	n pro	ducts	
	azardous decomposition	:	No hazardous d	ecomposition products are known.
рн	Juucis			
SECTI	ON 11: Toxicological i	infor	mation	
11 1 10	formation on barard alo		as defined in De	nulation (EC) No 1373/2009
	formation on likely routes of		Ingestion	gulation (EC) No 1272/2008
	posure		Inhalation	
			Skin contact Eye contact	
۵c	cute toxicity		Lye contact	
	-			
	<u>oduct:</u> cute oral toxicity	:	LD50 (Rat, fema	le): 3 129 ma/ka
		•	LD30 (Ital, leilla	le). 5, 129 mg/kg
Ac	cute inhalation toxicity	:		and female): > 5.17 mg/l
			Exposure time: 4 Test atmosphere	
				e component/mixture is minimally toxic after
Ac	ute dermal toxicity	:	LD50 (Rat, male	and female): > 5,000 mg/kg
<u>Co</u>	omponents:			
di	fenoconazole:			
Ac	cute oral toxicity	:		and female): 1,453 mg/kg
			Assessment: The single ingestion.	e component/mixture is moderately toxic after
Ac	ute inhalation toxicity	:		and female): > 3,300 mg/m3
			Exposure time: 4 Test atmosphere	
				e substance or mixture has no acute
			inhalation toxicity	
٨	ute dermal toxicity		LD50 (Pabbit m	ale and female): $> 2.010 \text{ mg/kg}$



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ooloiu	um bio(dodooy/bonz	anaculahanata)	branahadi
	um bis(dodecylbenz dermal toxicity	: Acute tox	, branched. icity estimate: 1,100 mg/kg Converted acute toxicity point estimate
2-met	thylpropan-1-ol:		
Acute	oral toxicity	: LD50 (Ra	at): 2,830 - 3,350 mg/kg
Acute	inhalation toxicity	Exposure Test atmo	at): > 24.6 mg/l e time: 4 h osphere: vapour ent: The substance or mixture has no acute n toxicity
Acute	dermal toxicity	: LD50 (Ra	abbit): > 2,000 - 2,460 mg/kg
naph	thalene:		
Acute	oral toxicity	: Assessm single ing	ent: The component/mixture is moderately toxic after pestion.
Skin	corrosion/irritation		
<u>Produ</u>			
Speci Resul		: Rabbit : No skin ir	ritation
Resul	t	: Repeated	exposure may cause skin dryness or cracking.
-			
<u>Comp</u>	oonents:		
hydro	ocarbons, C10-C13, a		-
	ocarbons, C10-C13, a		naphthalene: I exposure may cause skin dryness or cracking.
hydro Resul	ocarbons, C10-C13, a		-
hydro Resul difeno Speci	ocarbons, C10-C13, a t oconazole: es	: Repeated	d exposure may cause skin dryness or cracking.
hydro Resul difeno	ocarbons, C10-C13, a t oconazole: es	: Repeated	d exposure may cause skin dryness or cracking.
hydro Resul difen e Speci Resul	ocarbons, C10-C13, a t oconazole: es	: Repeated : Rabbit : No skin ir	d exposure may cause skin dryness or cracking. ritation
hydro Resul difen e Speci Resul	ocarbons, C10-C13, a t oconazole: es t um bis(dodecylbenz	: Repeated : Rabbit : No skin ir	d exposure may cause skin dryness or cracking. ritation
hydro Resul difend Speci Resul calciu Resul	ocarbons, C10-C13, a t oconazole: es t um bis(dodecylbenz	: Repeated : Rabbit : No skin ir enesulphonate); : Irritating t	d exposure may cause skin dryness or cracking. ritation , branched: to skin.
hydro Resul difend Speci Resul calciu Resul	ocarbons, C10-C13, a t oconazole: es t um bis(dodecylbenze t t ols, C16-18 and C18	: Repeated : Rabbit : No skin ir enesulphonate); : Irritating t	d exposure may cause skin dryness or cracking. ritation , branched: to skin. ylated:
hydro Resul difend Speci Resul calciu Resul alcoh Resul	ocarbons, C10-C13, a t oconazole: es t um bis(dodecylbenze t t ols, C16-18 and C18	: Repeated : Rabbit : No skin ir enesulphonate); : Irritating t	d exposure may cause skin dryness or cracking. ritation , branched: to skin. ylated:



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toluer	ne:			
Specie	es	:	Rabbit	
Result		:	Irritating to ski	٦.
Serio	us eye damage/eye	irritati	on	
Produ	ict:			
Specie	es		Rabbit	
Result		:	Eye irritation	
<u>Comp</u>	onents:			
difend	oconazole:			
Specie		:	Rabbit	
Result	t	:	Irritation to eye	es, reversing within 7 days
calciu	ım bis(dodecylbenz	enesu	Iphonate), brar	nched:
Result		:		damage to eyes.
	hylpropan-1-ol:			
2-met Result		:	Risk of serious	adamage to eyes.
Result		: itisatic		adamage to eyes.
Result	ratory or skin sensi	: itisatic		a damage to eyes.
Result Respi <u>Produ</u> Specie	ratory or skin sensi <u>ıct:</u> es			adamage to eyes.
Result Respi <u>Produ</u>	ratory or skin sensi <u>ıct:</u> es		o n Guinea pig	s damage to eyes. sensitisation on laboratory animals.
Result Respi <u>Produ</u> Specie Result	ratory or skin sensi <u>ıct:</u> es		o n Guinea pig	
Result Respi Produ Specie Result	r atory or skin sensi I <u>ct:</u> es t		o n Guinea pig	
Result Respi Produ Specie Result Comp difence Specie	t ratory or skin sensi <u>ict:</u> es t b <u>onents:</u> pconazole: es		on Guinea pig Did not cause Guinea pig	sensitisation on laboratory animals.
Result Respi Produ Specie Result Comp difend	t ratory or skin sensi <u>ict:</u> es t b <u>onents:</u> pconazole: es		on Guinea pig Did not cause Guinea pig	
Result Respi Produ Specie Result Comp difence Result	t ratory or skin sensi <u>ict:</u> es t b <u>onents:</u> pconazole: es		on Guinea pig Did not cause Guinea pig	sensitisation on laboratory animals.
Result Respi Produ Specie Result Comp difend Specie Result 2-met	t ratory or skin sensi <u>let:</u> es t bonents: ponents: poonazole: es t hylpropan-1-ol:		on Guinea pig Did not cause Guinea pig Did not cause	sensitisation on laboratory animals.
Result Respi Produ Specie Result Comp difence Result	t iratory or skin sensi i <u>ct:</u> es t bonents: ponents: ponents: boonazole: es t hylpropan-1-ol: es		on Guinea pig Did not cause Guinea pig Did not cause Guinea pig	sensitisation on laboratory animals.
Result Respi Produ Specie Result Comp difence Specie Result 2-met Specie	ratory or skin sensi <u>ict:</u> es t ponents: ponents: poconazole: es t hylpropan-1-ol: es t		on Guinea pig Did not cause Guinea pig Did not cause Guinea pig Did not cause	sensitisation on laboratory animals. sensitisation on laboratory animals.
Result Respi Produ Specie Result Comp difend Specie Result Result Rema	ratory or skin sensi <u>ict:</u> es t ponents: ponents: poconazole: es t hylpropan-1-ol: es t		on Guinea pig Did not cause Guinea pig Did not cause Guinea pig Did not cause Information giv	sensitisation on laboratory animals. sensitisation on laboratory animals. sensitisation on laboratory animals.
Result Respi Produ Specie Result Comp difend Specie Result Result Rema	ratory or skin sensi <u>ict:</u> es t ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: ponents: pone		on Guinea pig Did not cause Guinea pig Did not cause Guinea pig Did not cause Information giv	sensitisation on laboratory animals. sensitisation on laboratory animals. sensitisation on laboratory animals.
Result Respi Produ Specie Result Comp difend Specie Result Result Result Result Result Result Result Result	ratory or skin sensi ict: es t ponents: poconazole: es t hylpropan-1-ol: es t rks cell mutagenicity		on Guinea pig Did not cause Guinea pig Did not cause Guinea pig Did not cause Information giv	sensitisation on laboratory animals. sensitisation on laboratory animals. sensitisation on laboratory animals.
Result Respi Produ Specie Result Comp difence Specie Result Result Result Result Rema Germ difence	ratory or skin sensi <u>ict:</u> es t ponents: ponents: ponents: ponents: hylpropan-1-ol: es t rks cell mutagenicity ponents:		on Guinea pig Did not cause Guinea pig Did not cause Information giv substances.	sensitisation on laboratory animals. sensitisation on laboratory animals. sensitisation on laboratory animals.



rsion 0	Revision Date: 12.05.2021	SDS Number: S189518274	This version replaces all previous versions
Carci	nogenicity		
Comp	oonents:		
difend	oconazole:		
	nogenicity - ssment	: Weight of evi carcinogen	dence does not support classification as a
napht	halene:		
	nogenicity - sment	: Limited evide	nce of carcinogenicity in animal studies
Repro	oductive toxicity		
Comp	oonents:		
difend	oconazole:		
	oductive toxicity - ssment	: No toxicity to	reproduction
tolue	ne:		
	oductive toxicity - ssment	: Some eviden animal exper	ce of adverse effects on development, based or iments.
sтот	- single exposure		
<u>Comp</u>	oonents:		
2-met	hylpropan-1-ol:		
Asses	sment	toxicant, sing irritation., The	ce or mixture is classified as specific target organ le exposure, category 3 with respiratory tract e substance or mixture is classified as specific toxicant, single exposure, category 3 with tts.
tolue	ne:		
Asses	sment		e or mixture is classified as specific target organized organized organized by the sposure, category 3 with narcotic effects.
sтот	- repeated exposure		
Comp	oonents:		
tolue	ne:		
	t Organs ssment		bus system be or mixture is classified as specific target organ bated exposure, category 2.



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Repe	ated dose toxicity		
Com	ponents:		
difen	oconazole:		
Rema	arks	: No adverse eff	ect has been observed in chronic toxicity tests.
Aspii	ration toxicity		
<u>Com</u>	ponents:		
•	ocarbons, C10-C13, a be fatal if swallowed a	aromatics, <1% naph nd enters airways.	thalene:
tolue	ne:		
May b	be fatal if swallowed a	nd enters airways.	
11.2 Infor	mation on other haz	ards	
Endo	ocrine disrupting pro	perties	
Prod	uct:		
Asse	ssment	considered to h to REACH Artic	/mixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.

SECTION 12: Ecological information

12.1 Toxicity

|--|

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
		NOEC (Desmodesmus subspicatus (green algae)): 0.22 mg/l End point: Growth rate Exposure time: 72 h

Components:

hydrocarbons, C10-C13	aromatics, <1% naph	nthalene:
Toxicity to fish	: LL50 (Oncorhy Exposure time	ynchus mykiss (rainbow trout)): 3.6 mg/l :: 96 h



ersion I.0	Revision Date: 12.05.2021		S Number: 89518274	This version replaces all previous versions
			Remarks: Informa similar substances	tion given is based on data obtained from S.
	y to daphnia and other invertebrates	:	Exposure time: 48	tion given is based on data obtained from
Toxicity plants	y to algae/aquatic	:	mg/l End point: Growth Exposure time: 72	h tion given is based on data obtained from
			0.22 mg/l End point: Growth Exposure time: 72	h tion given is based on data obtained from
	kicology Assessment c aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.
	conazole:			
Toxicity	y to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 1.1 mg/l i h
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.77 mg/l s h
			EC50 (Americamy Exposure time: 96	
Toxicity plants	y to algae/aquatic	:	EC50 (Navicula p Exposure time: 72	elliculosa (Freshwater diatom)): 0.091 mg/l ! h
			NOEC (Navicula p Exposure time: 72	pelliculosa (Freshwater diatom)): 0.053 mg/ h
			ErC50 (Desmodes mg/l Exposure time: 72	smus subspicatus (green algae)): 0.0876 ! h
			EC10 (Desmodes End point: Growth Exposure time: 72	
M-Fact toxicity	or (Acute aquatic)	:	10	



/ersion 14.0	Revision Date: 12.05.2021		OS Number: This version replaces all previous versions 89518274
Toxicit	y to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicit toxicity	ry to fish (Chronic /)	:	NOEC: 0.0076 mg/l Exposure time: 34 d Species: Pimephales promelas (fathead minnow)
aquati	ry to daphnia and other c invertebrates nic toxicity)	:	NOEC: 0.0056 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
			NOEC: 0.0023 mg/l Exposure time: 28 d Species: Americamysis
M-Fac toxicity	tor (Chronic aquatic /)	:	10
calciu	m bis(dodecylbenzene	esu	Iphonate), branched:
	xicology Assessment		
Chroni	ic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
alcoho	ols, C16-18 and C18-u	nsa	td., ethoxylated:
Toxicit	y to fish	:	LC50 (Fish): estimated 1.26 mg/l Exposure time: 96 h
	y to daphnia and other c invertebrates	:	EC50 (Aquatic invertebrates (general)): 2.6 mg/l Exposure time: 48 h
Toxicit plants	y to algae/aquatic	:	EC50 (algae): 2.3 mg/l Exposure time: 72 h
			EC10 (algae): 0.33 mg/l End point: Biomass Exposure time: 72 h
2-met	hylpropan-1-ol:		
Toxicit	y to fish	:	LC50 (Pimephales promelas (fathead minnow)): 1,430 mg/l Exposure time: 96 h
	y to daphnia and other cinvertebrates	:	EC50 (Daphnia pulex (Water flea)): 1,100 mg/l Exposure time: 48 h
Toxicit plants	y to algae/aquatic	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): 1,799 mg/l Exposure time: 72 h
aquati	ry to daphnia and other c invertebrates nic toxicity)	:	NOEC: 20 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)



/ersion I4.0	Revision Date: 12.05.2021		OS Number: 89518274	This version replaces all previous versions
napl	hthalene:			
Ecot	toxicology Assessment			
Acut	e aquatic toxicity	:	Very toxic to aqu	atic life.
Chro	onic aquatic toxicity	:	Very toxic to aqu	atic life with long lasting effects.
tolu	ene:			
Toxi	city to fish	:	LC50 (Oncorhyn Exposure time: 9	chus mykiss (rainbow trout)): 5.5 mg/l 6 h
	city to daphnia and other atic invertebrates	:	EC50 (Ceriodapł Exposure time: 4	nnia dubia (water flea)): 3.78 mg/l 8 h
2.2 Pers	sistence and degradabil	ity		
Com	ponents:			
hydı	rocarbons, C10-C13, arc	oma	tics, <1% naphth	alene:
Biod	egradability	:	Result: Readily b	iodegradable.
dife	noconazole:			
	egradability	:	Result: Not readi	ly biodegradable.
Stab	ility in water	:	Degradation half Remarks: Produc	life: 1 d ct is not persistent.
alco	hols, C16-18 and C18-u	nsa	td., ethoxylated:	
Biod	egradability	:	Result: rapidly bi Remarks: Based	odegradable on data from similar materials
2-me	ethylpropan-1-ol:			
Biod	egradability	:	Result: Readily b	iodegradable.
41-				
tolue Biod	e ne: egradability		Result: Readily b	viodegradable.
Diou	- <u>-</u>	•		
2.3 Bioa	accumulative potential			
Com	ponents:			
dife	noconazole:			
Bioa	ccumulation	:	Remarks: High b	ioaccumulation potential.
	tion coefficient: n- nol/water	:	log Pow: 4.4 (25	°C)
tolu	ene:			
loiu				



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2.4 Mobi	ility in soil		
Com	ponents:		
difen	oconazole:		
envire	bution among onmental compartments lity in soil	: Dissipation Percentage	ow mobility in soil. ime: 149 - 187 d dissipation: 50 % (DT50) roduct is not persistent.
12.5 Resu	ults of PBT and vPvB as	ssessment	
<u>Prod</u> Asse	<u>uct:</u> ssment	to be either	nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of ner
Com	ponents:		
difen	oconazole:		
Asse	ssment	bioaccumula	nce is not considered to be persistent, ating and toxic (PBT) This substance is not to be very persistent and very bioaccumulating
2-me	thylpropan-1-ol:		
Asse	ssment	bioaccumula	nce is not considered to be persistent, ating and toxic (PBT) This substance is not to be very persistent and very bioaccumulating
naph	thalene:		
-	ssment	bioaccumula	nce is not considered to be persistent, ating and toxic (PBT) This substance is not to be very persistent and very bioaccumulating
tolue	ne:		
Asse	ssment		nce is not considered to be persistent, ating and toxic (PBT)
12.6 Endo	ocrine disrupting prope	rties	
Prod	uct:		
Asse	ssment	considered t to REACH A (EU) 2017/2	ice/mixture does not contain components to have endocrine disrupting properties according article 57(f) or Commission Delegated regulation 100 or Commission Regulation (EU) 2018/605 a % or higher.



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12.7 Other adverse effects

No data available

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.
Waste Code	 uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID 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. (DIFENOCONAZOLE AND SOLVENT NAPHTHA)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE AND SOLVENT NAPHTHA)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE AND SOLVENT NAPHTHA)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,



PLC	DVER		
Versic 14.0	on Revision Date: 12.05.2021	SDS Number: S189518274	This version replaces all previous versions.
		N.O.S. (DIFENOCONA	ZOLE AND SOLVENT NAPHTHA)
L/	ΑΤΑ		y hazardous substance, liquid, n.o.s. AZOLE AND SOLVENT NAPHTHA)
14.3 T	Fransport hazard class(es)		
A	NDN	: 9	
A	ADR	: 9	
R	RID	: 9	
II	MDG	: 9	
I/	ATA	: 9	
14.4 F	Packing group		
F C F	ADN Packing group Classification Code Hazard Identification Number Labels	: III : M6 : 90 : 9	
F C F L	ADR Packing group Classification Code lazard Identification Number abels Funnel restriction code	: III : M6 : 90 : 9 : (-)	
F C H	RID Packing group Classification Code Hazard Identification Number abels	: III : M6 : 90 : 9	
F L	MDG Packing group abels EmS Code	: III : 9 : F-A, S-F	
F	ATA (Cargo) Packing instruction (cargo ircraft)	: 964	
F F	Packing instruction (LQ) Packing group abels	: Y964 : III : Miscellaneous	
P	ATA (Passenger) Packing instruction passenger aircraft)	: 964	
Ë F	Packing instruction (LQ) Packing group abels	: Y964 : III : Miscellaneous	



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14.5 Environmental hazards

ADN

Environmentally hazardous	:	yes
ADR Environmentally hazardous	:	yes
RID Environmentally hazardous	:	yes
IMDG Marine pollutant	:	yes
IATA (Passenger) Environmentally hazardous	:	yes
IATA (Cargo) Environmentally hazardous	:	yes

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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

~	luie				
	REACH - Restrictions on the manuf the market and use of certain dange preparations and articles (Annex X)	erous substances,	:	Conditions of restrict following entries sh considered: Number on list 3 toluene (Number on	ould be
	REACH - Candidate List of Substan Concern for Authorisation (Article 59	, ,	:	Not applicable	
	REACH - List of substances subject (Annex XIV)	to authorisation	:	Not applicable	
	Regulation (EC) No 1005/2009 on s deplete the ozone layer	substances that	:	Not applicable	
	Regulation (EU) 2019/1021 on pers pollutants (recast)	istent organic	:	naphthalene	
	Regulation (EC) No 649/2012 of the Parliament and the Council concern import of dangerous chemicals		:	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.					
	,	0		Quantity 1	Quantity 2
	E1 E	INVIRONMENTAL		100 t	200 t

HAZARDS



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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.

Use plant protection products safely. Always read the label and product information before use.

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

Full lext of H-Statements		
H225	:	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H228	:	Flammable solid.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H351	:	Suspected of causing cancer.
H361d	:	Suspected of damaging the unborn child.
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.
EUH066	:	Repeated exposure may cause skin dryness or cracking.
Full text of other abbreviation	ons	
Full text of other abbreviation	ons :	
	ons : :	Acute toxicity
Acute Tox. Aquatic Acute	ons : : :	Acute toxicity Short-term (acute) aquatic hazard
Acute Tox. Aquatic Acute Aquatic Chronic	ons : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard
Acute Tox. Aquatic Acute	ons	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc.	ons : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam.	ons : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit.	ons : : : : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam.	ons	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq.	ons : : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq. Flam. Sol.	ons : : : : : : : : : : : : : : : : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids Flammable solids
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq. Flam. Sol. Repr.	ons : : : : : : : : : : : : : : : : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids Flammable solids Reproductive toxicity Skin irritation
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq. Flam. Sol. Repr. Skin Irrit.	ons : : : : : : : : : : : : : : : : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids Flammable solids Reproductive toxicity Skin irritation Specific target organ toxicity - repeated exposure
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq. Flam. Sol. Repr. Skin Irrit. STOT RE	ons : : : : : : : : : : : : : : : : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids Flammable solids Reproductive toxicity Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq. Flam. Sol. Repr. Skin Irrit. STOT RE STOT SE	ons : : : : : : : : : : : : : : : : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids Flammable solids Reproductive toxicity Skin irritation Specific target organ toxicity - repeated exposure
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq. Flam. Sol. Repr. Skin Irrit. STOT RE STOT SE 2006/15/EC	ons	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids Flammable solids Reproductive toxicity Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. Indicative occupational exposure limit values
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq. Flam. Sol. Repr. Skin Irrit. STOT RE STOT SE 2006/15/EC	ons	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids Flammable solids Reproductive toxicity Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. Indicative occupational exposure limit values Europe. Commission Directive 91/322/EEC on establishing indicative limit values
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq. Flam. Sol. Repr. Skin Irrit. STOT RE STOT SE 2006/15/EC 91/322/EEC	ons	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids Flammable solids Reproductive toxicity Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. Indicative occupational exposure limit values Europe. Commission Directive 91/322/EEC on establishing
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Eye Irrit. Flam. Liq. Flam. Sol. Repr. Skin Irrit. STOT RE STOT SE 2006/15/EC 91/322/EEC GB EH40	ons	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Eye irritation Flammable liquids Flammable solids Reproductive toxicity Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. Indicative occupational exposure limit values Europe. Commission Directive 91/322/EEC on establishing indicative limit values UK. EH40 WEL - Workplace Exposure Limits



GB EH40 / STEL

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91/32	15/EC / STEL 2/EEC / TWA H40 / TWA	: Short term expo : Limit Value - eig : Long-term expo	

:

Short-term exposure limit (15-minute reference period)

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 -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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		Classification procedure:
Eye Irrit. 2	H319	Based on product data or assessment
Asp. Tox. 1	H304	Calculation method
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.

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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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