

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.1	28.09.2024	10875044-00009	Date of first issue: 20.10.2022

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

## 1.1 Product identifier

Trade name:Ivermectin (0.50%) Liquid FormulationOther means of identification:COOPERS PARAMAX POUR-ON FOR BEEF AND DAIRY<br/>CATTLE (50558)

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

Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

+1-908-423-6000

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

#### 2.1 Classification of the substance or mixture

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

Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Hazar	d pictograms	:	
Signa	l word	: Warning	• •
Hazar	d statements	H319 ( H336 M H341 S	May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. /ery toxic to aquatic life with long lasting effects.
Preca	utionary statements	· Preventi	on:
		P273 A P280 V	Dbtain special instructions before use. Avoid release to the environment. Near protective gloves/ protective clothing/ eye protec- e protection.
		Respons	
		air and k CENTER P308 + F attention	P340 + P312 IF INHALED: Remove person to fresh eep comfortable for breathing. Call a POISON / doctor if you feel unwell. P313 IF exposed or concerned: Get medical advice/ Collect spillage.

Hazardous components which must be listed on the label:

Propan-2-ol

7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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				Index-No. Registration	number		
	Propan	i-2-ol		67-63-0 200-661-7 603-117-00-(	0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 70 - < 90
		icyclo[4.1.0]hept-3-yln /clo[4.1.0]heptane-3- ylate	nethyl 7-	2386-87-0 219-207-4		Skin Sens. 1; H317 Muta. 2; H341 STOT RE 2; H373 (nasal cavity) Aquatic Chronic 3; H412	>= 1 - < 2,5
	lverme	ctin		70288-86-7 274-536-0		Acute Tox. 2; H300 Acute Tox. 3; H311 STOT SE 1; H370 (Central nervous system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute	>= 0,25 - < 1
						aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000	

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures General advice In the case of accident or if you feel unwell, seek medical ad-: vice immediately. When symptoms persist or in all cases of doubt seek medical advice. First Aid responders should pay attention to self-protection, Protection of first-aiders : and use the recommended personal protective equipment when the potential for exposure exists (see section 8). If inhaled If inhaled, remove to fresh air. : Get medical attention. In case of skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.



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				Get medical atter Wash clothing be Thoroughly clean		
	In case of eye contact		:	In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.		
	If swall	owed	:	Get medical atter	NOT induce vomiting. ntion. oughly with water.	
4.2 N	lost im	portant symptoms a	nd e	effects, both acute	e and delayed	
	Risks		:		ergic skin reaction.	
					sing genetic defects.	
4.3 lı	ndicati	on of any immediate	me	dical attention and	d special treatment needed	
	Treatm	ent	:	Treat symptomati	ically and supportively.	
	SECTION 5: Firefighting measures 5.1 Extinguishing media					
	-	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical		
	Unsuita media	able extinguishing	:	None known.		
5.2 S	Special	hazards arising from	the	e substance or mi	xture	
	Specific fighting	c hazards during fire-	:	Exposure to com	bustion products may be a hazard to health.	
	Hazard ucts	ous combustion prod-	:	Carbon oxides		
53A	\dvice	for firefighters				
		protective equipment	:		e, wear self-contained breathing apparatus. tective equipment.	
	Specific ods	c extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		so. Evacuate are	ea.
SECTION	I 6: Accidental relea	ise measures	
6.1 Perso	nal precautions, prote	ective equipment a	and emergency procedures
Perso	nal precautions	Follow safe h	l protective equipment. nandling advice (see section 7) and personal pro- ment recommendations (see section 8).
6.2 Enviro	onmental precautions		
Enviro	onmental precautions	Prevent furth Prevent spre barriers). Retain and d	e to the environment. er leakage or spillage if safe to do so. ading over a wide area (e.g. by containment or oil ispose of contaminated wash water. ties should be advised if significant spillages ntained.
6.3 Metho	ds and material for c	ontainment and cl	eaning up
	ods for cleaning up	: Soak up with For large spi ment to keep be pumped, Clean up ren bent. Local or nation posal of this employed in mine which r Sections 13	inert absorbent material. Ils, provide dyking or other appropriate contain- material from spreading. If dyked material can store recovered material in appropriate container. naining materials from spill with suitable absor- onal regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Technical measures	See Engineering measures under EX CONTROLS/PERSONAL PROTECT	
Local/Total ventilation	If sufficient ventilation is unavailable, ventilation.	
Advice on safe handling	<ul> <li>Do not get on skin or clothing.</li> <li>Do not breathe mist or vapours.</li> <li>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good indu</li> </ul>	



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Hygier	ie measures	<ul> <li>sessment</li> <li>Take care to environment.</li> <li>If exposure to flushing syste place. When work clothing Wash contam</li> <li>The effective engineering of appropriate d industrial hyg</li> </ul>	ed on the results of the workplace exposure as- prevent spills, waste and minimize release to the o chemical is likely during typical use, provide eye ems and safety showers close to the working using do not eat, drink or smoke. Contaminated should not be allowed out of the workplace. ininated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.
7.2 Conditi	ons for safe storage,	including any inc	ompatibilities
	ements for storage and containers	a cool, well-v	erly labelled containers. Store locked up. Keep in entilated place. Store in accordance with the ional regulations.
Advice	on common storage	: Do not store Strong oxidiz Gases	with the following product types: ing agents
•	<b>c end use(s)</b> ic use(s)	: No data avail	able

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Propan-2-ol	67-63-0	TWA	100 ppm 245 mg/m3	FOR-2011- 12-06-1358		
Ivermectin	70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal		
	Further information: Skin					
		Wipe limit	300 µg/100 cm2	Internal		

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
7- Oxabicy- clo[4.1.0]hept-3- ylmethyl 7- oxabicy- clo[4.1.0]heptane-3- carboxylate	Workers	Inhalation	Long-term systemic effects	0,18 mg/m3

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		Workers	Inhalation	Long-term local ef- fects	0,18 mg/m3
		Workers	Skin contact	Long-term systemic effects	0,05 mg/kg bw/day
Cetyl	octanoate	Workers	Inhalation	Long-term systemic effects	6,01 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	18,029 mg/m3
		Workers	Skin contact	Long-term systemic effects	17,043 mg/kg bw/day
		Workers	Skin contact	Acute systemic ef- fects	51,128 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	1,483 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	4,448 mg/m3
		Consumers	Skin contact	Long-term systemic effects	8,52 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	25,56 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0,851 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	2,554 mg/kg bw/day
Propa	an-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3
		Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	89 mg/m3
		Consumers	Skin contact	Long-term systemic effects	319 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
7-Oxabicyclo[4.1.0]hept-3- ylmethyl 7- oxabicyclo[4.1.0]heptane-3-	Fresh water	0,024 mg/l
carboxylate		
	Freshwater - intermittent	0,24 mg/l
	Marine water	0,0024 mg/l
	Sewage treatment plant	19,5 mg/l
	Fresh water sediment	0,211 mg/kg dry weight (d.w.)
	Marine sediment	0,0211 mg/kg dry weight (d.w.)
	Soil	0,0282 mg/kg dry weight (d.w.)
Propan-2-ol	Fresh water	140,9 mg/l
	Marine water	140,9 mg/l

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		Intermittent us	e/release	140,9 mg/l
		Sewage treatment plant		2251 mg/l
		Fresh water se	ediment	552 mg/kg dry weight (d.w.)
		Marine sedime	ent	552 mg/kg dry weight (d.w.)
		Soil		28 mg/kg dry weight (d.w.)
		Oral (Secondary Poisoning)		160 mg/kg food

#### 8.2 Exposure controls

#### **Engineering measures**

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

#### Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387
Filter type	:	Organic vapour type (A)

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

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

Physical state	:	liquid
Colour	:	clear

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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				Straw-coloured	
(	Odour		:	characteristic	
(	Odour 1	Threshold	:	No data available	
I	Melting	point/freezing point	:	No data available	
	Initial bo range	piling point and boiling	:	No data available	
I	Flamma	ability (solid, gas)	:	Not applicable	
I	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
I	Flash p	oint	:	No data available	
/	Auto-igr	nition temperature	:	No data available	
ſ	Decomp	position temperature	:	No data available	
ł	pН		:	No data available	
Ň	Viscosit Visco	y osity, kinematic	:	No data available	
Ş	Solubilit Wate	ry(ies) er solubility	:	No data available	
	Partitior octanol/	n coefficient: n- /water	:	Not applicable	
١	Vapour	pressure	:	No data available	
I	Relative	e density	:	No data available	
[	Density		:	No data available	
I	Relative	e vapour density	:	No data available	
I		characteristics cle size	:	Not applicable	

#### 9.2 Other information



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Explo	sives	:	Not explosive	
Oxidi	zing properties	:	The substance of	or mixture is not classified as oxidizing.
Evap	oration rate	:	No data availabl	e
Moleo	cular weight	:	No data availabl	е

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

#### **10.1 Reactivity**

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

-		
Hazardous reactions	:	Can react with strong oxidizing agents.

#### 10.4 Conditions to avoid

Conditions to avoid : None known.

#### 10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
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#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method

#### Components:

Propan-2-ol:



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sion	Revision Date: 28.09.2024	SDS Number: 10875044-0000	Date of last issue: 06.04.2024 9 Date of first issue: 20.10.2022		
Acute	oral toxicity	: LD50 (Rat):	> 5.000 mg/kg		
Acute inhalation toxicity		Exposure tir	: LC50 (Rat): > 25 mg/l Exposure time: 6 h Test atmosphere: vapour		
Acute	e dermal toxicity	: LD50 (Rabb	it): > 5.000 mg/kg		
7-Oxa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabio	cyclo[4.1.0]heptane-3-carboxylate:		
Acute	e oral toxicity		nale): > 2.959 - 5.000 mg/kg CD Test Guideline 401		
Acute	inhalation toxicity	Exposure tir Test atmosp Method: OE	>= 5,19 mg/l ne: 4 h here: dust/mist CD Test Guideline 436 :: The substance or mixture has no acute inhala		
Acute	e dermal toxicity	Method: OE	<ul> <li>LD50 (Rat): &gt; 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute der toxicity</li> </ul>		
lverm	nectin:				
Acute	oral toxicity	: LD50 (Rat):	50 mg/kg		
		LD50 (Mous	e): 25 mg/kg		
		Target Orga Symptoms:	ey): > 24 mg/kg ns: Central nervous system Vomiting, Dilatation of the pupil o mortality observed at this dose.		
Acute	inhalation toxicity	Exposure tir	: LC50 (Rat): 5,11 mg/l Exposure time: 1 h Test atmosphere: dust/mist		
Acute	e dermal toxicity	: LD50 (Rabb	it): 406 mg/kg		
		LD50 (Rat):	> 660 ma/ka		

Components:

#### Propan-2-ol:

Species	:	Rabbit
Result	:	No skin irritation



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7-Oxa	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Speci		: Rabbit	
Metho		: OECD Test Gu	
Resu	It	: No skin irritatio	n
lverm	nectin:		
Speci		: Rabbit	
Resu	lt	: No skin irritatio	n
Serio	ous eye damage/eye	irritation	
Caus	es serious eye irritatio	on.	
<u>Com</u>	ponents:		
•	an-2-ol:		
Speci		: Rabbit	
Resu	It	: Irritation to eye	s, reversing within 21 days
7-Oxa	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Speci		: Rabbit	
Metho		: OECD Test Gu	
Resu	π	: No eye irritation	1
lverm	nectin:		
Speci		: Rabbit	
Resu	lt	: Mild eye irritatio	n
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
May o	cause an allergic skin	reaction.	
	iratory sensitisation		
	lassified based on available	ailable information.	
<u>Com</u>	ponents:		
Prop	an-2-ol:		
Test		: Buehler Test	
	sure routes	: Skin contact	
Speci Metho		: Guinea pig : OECD Test Gu	ideline 406
Resu		: negative	
7.0%	abievelo[4 1 0]best	-vlmothyl 7-ovabiova	lo[4.1.0]heptane-3-carboxylate:
Test		: Maximisation T	
	sure routes	: Skin contact	
Speci	ies	: Guinea pig	
Resu	1+	· nositive	

Result



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Asse	Assessment		: Probability or evidence of skin sensitisation in humans				
Expo Spec	<b>Ivermectin:</b> Exposure routes Species		ermal umans				
Resu	lt	: D	oes not cause	skin sensitisation.			
	n cell mutagenicity ected of causing gene	tic defect	S.				
Com	ponents:						
Prop	an-2-ol:						
Geno	toxicity in vitro		est Type: Bact esult: negative	erial reverse mutation assay (AMES)			
			est Type: In vi esult: negative	ro mammalian cell gene mutation test			
Geno	otoxicity in vivo	cy S	vtogenetic ass pecies: Mouse				
			oplication Rou esult: negative	te: Intraperitoneal injection			
7-0x	abicyclo[4.1.0]hept-3	-ylmethy	l 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:			
Geno	otoxicity in vitro	Μ		erial reverse mutation assay (AMES) Test Guideline 471			
			est Type: In vi esult: positive	ro mammalian cell gene mutation test			
		m	est Type: In vi alian cells esult: positive	ro sister chromatid exchange assay in mam-			
		th		damage and repair, unscheduled DNA syn- alian cells (in vitro)			
Geno	otoxicity in vivo	m S A M	ammalian live pecies: Rat oplication Rou	te: Ingestion Test Guideline 486			
		S	est Type: Micr pecies: Mouse oplication Rou				

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rsion	Revision Date: 28.09.2024	-	S Number: 375044-00009	Date of last issue: 06.04.2024 Date of first issue: 20.10.2022
			Result: negative	9
			say Species: Mouse Application Rou	
Germ sessn	cell mutagenicity- As- nent	:	Positive result(s genicity tests.	) from in vivo mammalian somatic cell muta
lverm	nectin:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			thesis in mamm	a damage and repair, unscheduled DNA synalian cells (in vitro) man diploid fibroblasts
			Test Type: Mou Result: negative	
Carci	nogenicity			
Not cl	lassified based on availa	able i	nformation.	
	lassified based on availa ponents:	able i	nformation.	
<u>Comp</u> Propa Speci Applic	<b>conents:</b> an-2-ol: les cation Route sure time od	able i	nformation. Rat inhalation (vapo 104 weeks OECD Test Gui negative	
Comp Propa Speci Applic Expos Metho Resul	<b>conents:</b> an-2-ol: les cation Route sure time od lt	- - - - - -	Rat inhalation (vapo 104 weeks OECD Test Gui negative	deline 451
Comp Propa Speci Applic Expos Metho Resul 7-Oxa Speci Applic	conents: an-2-ol: les cation Route sure time od lt abicyclo[4.1.0]hept-3-y les cation Route sure time	- - - - - -	Rat inhalation (vapo 104 weeks OECD Test Gui negative	
Comp Propa Speci Applic Expos Metho Resul 7-Oxa Speci Applic Expos Resul	oonents: an-2-ol: les cation Route sure time od lt abicyclo[4.1.0]hept-3-y les cation Route sure time lt	- - - - - -	Rat inhalation (vapo 104 weeks OECD Test Gui negative hyl 7-oxabicycl Mouse Skin contact 29 Months	deline 451
Comp Propa Speci Applic Expos Metho Result 7-Oxa Speci Applic Expos Result	ponents: an-2-ol: les cation Route sure time od lt abicyclo[4.1.0]hept-3-y les cation Route sure time lt hectin:	- - - - - -	Rat inhalation (vapo 104 weeks OECD Test Gui negative hyl 7-oxabicycl Mouse Skin contact 29 Months negative	deline 451
Comp Propa Speci Applic Expos Metho Resul 7-Oxa Speci Applic Expos Resul	ponents: an-2-ol: les cation Route sure time od lt abicyclo[4.1.0]hept-3-y les cation Route sure time lt hectin:	- - - - - -	Rat inhalation (vapo 104 weeks OECD Test Gui negative hyl 7-oxabicycl Mouse Skin contact 29 Months	deline 451
Comp Propa Speci Applic Expos Metho Resul 7-Oxa Speci Applic Expos Resul	an-2-ol: an-2-ol: tes cation Route sure time od t abicyclo[4.1.0]hept-3-y tes cation Route sure time t hectin: tes cation Route EL	- - - - - -	Rat inhalation (vapo 104 weeks OECD Test Gui negative hyl 7-oxabicycl Mouse Skin contact 29 Months negative Rat Oral 1,5 mg/kg body	deline 451 o[4.1.0]heptane-3-carboxylate:
Comp Propa Speci Applic Expos Metho Resul 7-Oxa Speci Applic Expos Resul	ponents: an-2-ol: les cation Route sure time od it abicyclo[4.1.0]hept-3-y les cation Route sure time it nectin: les cation Route EL	- - - - - -	Rat inhalation (vapo 104 weeks OECD Test Gui negative hyl 7-oxabicycl Mouse Skin contact 29 Months negative Rat Oral 1,5 mg/kg body negative	deline 451 <b>o[4.1.0]heptane-3-carboxylate:</b> weight
Comp Propa Speci Applic Expos Metho Resul 7-Oxa Speci Applic Expos Resul	ponents: an-2-ol: les cation Route sure time od it abicyclo[4.1.0]hept-3-y les cation Route sure time it nectin: les cation Route EL	- - - - - -	Rat inhalation (vapo 104 weeks OECD Test Gui negative hyl 7-oxabicycl Mouse Skin contact 29 Months negative Rat Oral 1,5 mg/kg body negative	deline 451 o[4.1.0]heptane-3-carboxylate:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Versio 4.1	n Revision Date: 28.09.2024	SDS Number: 10875044-000	Date of last issue: 06.04.2024 Date of first issue: 20.10.2022				
N R	oplication Route OAEL esult emarks	: negative	: 2,0 mg/kg body weight				
	eproductive toxicity ot classified based on av	ailable information.					
<u>c</u>	omponents:						
P	ropan-2-ol:						
	ffects on fertility	Species: R	Route: Ingestion				
	ffects on foetal develop- ent	Species: R	Route: Ingestion				
7-	Oxabicyclo[4.1.0]hept-	3-ylmethyl 7-oxab	icyclo[4.1.0]heptane-3-carboxylate:				
E	ffects on foetal develop- ent	: Test Type: Species: R Application	Embryo-foetal development at Route: Ingestion ECD Test Guideline 414				
Iv	ermectin:						
	ffects on fertility	Fertility: NO					
	ffects on foetal develop- ent	Species: M Application Developme Result: Ter effects on t toxic doses Test Type: Species: R Application Developme Result: Em spring were Remarks:	Route: Oral ental Toxicity: NOAEL: 0,2 mg/kg body weight ratogenic effects, Embryotoxic effects and adverse the offspring were detected only at high maternally Development at Route: Oral ental Toxicity: LOAEL: 0,4 mg/kg body weight bryotoxic effects and adverse effects on the off- e detected. The mechanism or mode of action may not be rele-				
		Test Type: Species: R Application Developme Result: Em spring were	Development at Route: Oral ental Toxicity: LOAEL: 0,4 mg/kg body weight bryotoxic effects and adverse effects on the o e detected. The mechanism or mode of action may not be				

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



ersion 1	Revision Date: 28.09.2024	SDS Number: 10875044-00009	Date of last issue: 06.04.2024 Date of first issue: 20.10.2022
			t
	<b>- single exposure</b> cause drowsiness or o	lizziness.	
Com	oonents:		
Propa	an-2-ol:		
-	ssment	: May cause drov	wsiness or dizziness.
lverm	nectin:		
•	et Organs ssment	: Central nervous : Causes damag	
	<b>- repeated exposur</b> lassified based on av		
	oonents:		
7-0xa	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Targe	sure routes et Organs ssment		uce significant health effects in animals at cor 10 to 100 mg/kg bw.
lverm	nectin:		
-	et Organs ssment	<ul> <li>Central nervous</li> <li>Causes damag exposure.</li> </ul>	s system e to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	oonents:		
Propa	an-2-ol:		
Speci		: Rat	
	L cation Route sure time	: 12,5 mg/l : inhalation (vapo : 104 Weeks	our)
7-0xa	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicvc	lo[4.1.0]heptane-3-carboxylate:
Speci	es	: Rat	
NOAE LOAE		: 5 mg/kg	
LUAE		: 50 mg/kg	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## Ivermectin (0.50%) Liquid Formulation

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	cation Route sure time od	: Ingestion : 90 Days : OECD Test Gu	ideline 408
<b>Ivern</b> Spec	nectin:	: Dog	
NOAI LOAE Appli Expo Targe Symp Spec	EL EL cation Route sure time et Organs otoms	: 0,5 mg/kg : 1 mg/kg : Oral : 14 Weeks : Central nervous	s system pupil, Tremors, Lack of coordination, anorexia
	cation Route sure time	: 1,2 mg/kg : Oral : 2 Weeks : No significant a	dverse effects were reported
Expo	ΞL	: Rat : 0,4 mg/kg : 0,8 mg/kg : Oral : 3 Months : spleen, Bone m	arrow, Kidney

#### Aspiration toxicity

Not classified based on available information.

#### 11.2 Information on other hazards

#### Endocrine disrupting properties

#### Product:

Assessment

: 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.

#### Experience with human exposure

#### **Components:**

Ivermectin:	
Skin contact	: Remarks: Can be absorbed through skin.
Eye contact	: Remarks: May irritate eyes.
Ingestion	: Symptoms: Drowsiness, Dilatation of the pupil, Tremors, Vom-
	iting, anorexia, Lack of coordination



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#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Components:Propan-2-ol:Toxicity to fish::LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates::EC50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 24 hToxicity to microorganisms::::EC50 (Pseudomonas putida): > 1.050 mg/l Exposure time: 16 h7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate: Toxicity to fish::::LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates::::EC50 (Daphnia magna (Water flea)): 40 mg/l Exposure time: 48 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plants::<			
Toxicity to fish:LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 24 hToxicity to microorganisms::EC50 (Pseudomonas putida): > 1.050 mg/l Exposure time: 16 h <b>7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:</b> Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 40 mg/l Exposure time: 48 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l Exposure time: 72 h Method: OECD Test Guideline 201Toxicity to microorganisms:EC10 (activated sludge): 409 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Itoxicity to microorganisms:EC10 (activated sludge): 409 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	Components:		
aquatic invertebratesExposure time: 24 hToxicity to microorganisms:EC50 (Pseudomonas putida): > 1.050 mg/l Exposure time: 16 h <b>7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:</b> Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 40 mg/l Exposure time: 48 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l Exposure time: 72 h Method: OECD Test Guideline 201Toxicity to microorganisms:EC10 (activated sludge): 409 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Ivermectin: Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l	•	:	
Exposure time: 16 h         7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:         Toxicity to fish       : LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 96 h Method: OECD Test Guideline 203         Toxicity to daphnia and other aquatic invertebrates       : EC50 (Daphnia magna (Water flea)): 40 mg/l Exposure time: 48 h Method: OECD Test Guideline 202         Toxicity to algae/aquatic plants       : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l Exposure time: 72 h Method: OECD Test Guideline 201         NOEC (Raphidocelis subcapitata (freshwater green alga)): 30 mg/l Exposure time: 72 h Method: OECD Test Guideline 201         Toxicity to microorganisms       : EC10 (activated sludge): 409 mg/l Exposure time: 3 h Method: OECD Test Guideline 209         Ivermectin:       :         Toxicity to fish       : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l		:	
Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 40 mg/l Exposure time: 48 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l Exposure time: 72 h Method: OECD Test Guideline 201Toxicity to microorganisms:EC10 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l Exposure time: 72 h Method: OECD Test Guideline 201Toxicity to microorganisms:EC10 (activated sludge): 409 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Ivermectin: Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l	Toxicity to microorganisms	:	
Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 40 mg/l Exposure time: 48 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l Exposure time: 72 h Method: OECD Test Guideline 201Toxicity to microorganisms:EC10 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l Exposure time: 72 h Method: OECD Test Guideline 201Toxicity to microorganisms:EC10 (activated sludge): 409 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Ivermectin: Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l			
aquatic invertebratesExposure time: 48 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l Exposure time: 72 h Method: OECD Test Guideline 201NOEC (Raphidocelis subcapitata (freshwater green alga)): 30 mg/l Exposure time: 72 h Method: OECD Test Guideline 201Toxicity to microorganisms:EC10 (activated sludge): 409 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Ivermectin: Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l			LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 96 h
plants       110 mg/l         Exposure time: 72 h         Method: OECD Test Guideline 201         NOEC (Raphidocelis subcapitata (freshwater green alga)): 30 mg/l         Exposure time: 72 h         Method: OECD Test Guideline 201         Toxicity to microorganisms         :       EC10 (activated sludge): 409 mg/l         Exposure time: 3 h         Method: OECD Test Guideline 209         Ivermectin:         Toxicity to fish         :       LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l		:	Exposure time: 48 h
mg/l         Exposure time: 72 h         Method: OECD Test Guideline 201         Toxicity to microorganisms       : EC10 (activated sludge): 409 mg/l         Exposure time: 3 h         Method: OECD Test Guideline 209         Ivermectin:         Toxicity to fish       : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l		:	110 mg/l Exposure time: 72 h
Exposure time: 3 h         Method: OECD Test Guideline 209         Ivermectin:         Toxicity to fish       : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l			mg/l Exposure time: 72 h
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l	Toxicity to microorganisms	:	Exposure time: 3 h
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l	hormostin.		
		:	
LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,0048 mg/l Exposure time: 96 h			
Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,000025 mg/l aquatic invertebrates Exposure time: 48 h		:	
Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): > 9,1 plants mg/l		:	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			Exposure time: 7 Method: OECD T	2 h Test Guideline 201
			mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 9,1 2 h est Guideline 201
M-Fac icity)	ctor (Acute aquatic tox-	:	10.000	
M-Fac toxicit	ctor (Chronic aquatic y)	:	10.000	
12.2 Persi	stence and degradabi	lity		
Comp	oonents:			
Propa	an-2-ol:			
Biode	gradability	:	Result: rapidly de	egradable
BOD/	COD	:	BOD: 1,19 (BOD: COD: 2,23 BOD/COD: 53 %	,
7-Oxa	abicyclo[4.1.0]hept-3-y	lme	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
	gradability	:	Result: Not readil Biodegradation: Exposure time: 2	ly biodegradable. 71 %
lverm	ectin:			
Biode	gradability	:	Result: Not readil Biodegradation: Exposure time: 2	50 %
12.3 Bioad	cumulative potential			
Comp	oonents:			
Propa	an-2-ol:			
	on coefficient: n- ol/water	:	log Pow: 0,05	
				[4.1.0]heptane-3-carboxylate:
	on coefficient: n- ol/water	:		est Guideline 107
-	ectin: cumulation	:	Bioconcentration	factor (BCF): 74



## Ivermectin (0.50%) Liquid Formulation

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	on coefficient: n- ol/water	:	log Pow: 3,22	
<b>12.4 Mobi</b> No da	<b>lity in soil</b> ata available			
12.5 Resu	Its of PBT and vPvB a	isse	ssment	
Produ Asses	uct: ssment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Endo	crine disrupting prop	ertie	S	
Produ	uct:			
Asses	ssment	:	ered to have end REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.

#### 12.7 Other adverse effects

No data available

#### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>Do not dispose of waste into sewer.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

### **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



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14.2 UN	proper shipping name					
ADI	N	:	ENVIRONMENT/ N.O.S. (Ivermectin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
ADF	र	:	ENVIRONMENT/ N.O.S. (Ivermectin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
RID	RID		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ivermectin)			
IMD	IMDG		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ivermectin)			
IAT	A	:	Environmentally I (Ivermectin)	nazardous substance, liquid, n.o.s.		
14.3 Tra	nsport hazard class(es)					
			Class	Subsidiary risks		
AD	N	:	9			
ADF	र	:	9			
RID		:	9			
IMD	G	:	9			
IAT	ΙΑΤΑ		9			
14.4 Pac	king group					
Clas	king group ssification Code ard Identification Number	:	III M6 90 9			
Clas Haz Lab	king group ssification Code ard Identification Number	:	III M6 90 9 (-)			
<b>RID</b> Pac Clas	king group ssification Code ard Identification Number		III M6 90 9			
Lab	king group	:	III 9 F-A, S-F			

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## Ivermectin (0.50%) Liquid Formulation

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	aircraft)	g instruction (cargo	:	964 Y964 III Miscellaneous			
	Packing ger airc Packing Packing Labels	g instruction (LQ) g group	:	964 Y964 III Miscellaneous			
14.5	Enviro	nmental hazards					
	ADN Environ	mentally hazardous	:	yes			
	<b>ADR</b> Environ	mentally hazardous	:	yes			
	<b>RID</b> Environ	mentally hazardous	:	yes			
	<b>IMDG</b> Marine	pollutant	:	yes			
		Passenger) mentally hazardous	:	yes			
	IATA (C Environ	Cargo) mentally hazardous	:	yes			
14.6	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

Remarks

: Not applicable for product as supplied.

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

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Substance(s) or mixture(s) are listed
here according to their appearance
in the regulation, irrespective of their
use/purpose or the conditions of the
restriction. Please refer to the condi-
tions in corresponding Regulation to
determine whether an entry is appli-
cable to the placing on the market or
not.

		not.
REACH - Candidate List of Substances of Very High	:	Not applicable
Concern for Authorisation (Article 59).		
REACH - List of substances subject to authorisation	:	Not applicable
(Annex XIV)		
Regulation (EC) on substances that deplete the ozone	:	Not applicable
layer		
Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable
tants (recast)		
Regulation (EU) No 649/2012 of the European Parlia-	:	Not applicable
ment and the Council concerning the export and import		
of dangerous chemicals		
Seveso III: Directive 2012/18/EU of the European Parlian	nont	and of the Council on the contr

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

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

#### Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

#### The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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

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

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## Ivermectin (0.50%) Liquid Formulation

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Full te H225 H300 H311 H317 H319 H336 H341 H370 H372 H373 H400 H410	ext of H-Statements	<ul> <li>Fatal if swallow</li> <li>Toxic in contact</li> <li>May cause an a</li> <li>Causes serious</li> <li>May cause drow</li> <li>Suspected of ca</li> <li>Causes damage</li> <li>Causes damage</li> <li>Causes damage</li> <li>May cause dam</li> <li>way cause dam</li> <li>exposure if swa</li> <li>May cause dam</li> <li>exposure.</li> <li>Very toxic to aq</li> <li>Very toxic to aq</li> </ul>	<ul> <li>Highly flammable liquid and vapour.</li> <li>Fatal if swallowed.</li> <li>Toxic in contact with skin.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Suspected of causing genetic defects.</li> <li>Causes damage to organs if swallowed.</li> <li>Causes damage to organs through prolonged or repeated exposure if swallowed.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>Very toxic to aquatic life.</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>	
H412		: Harmful to aquatic life with long lasting effects.		
Acute Aquat Aquat Eye Ir Flam. Muta. Skin S STOT STOT FOR-2	ic Acute ic Chronic rit. Liq. Sens. RE	<ul> <li>Acute toxicity</li> <li>Short-term (acute tong-term (chrown constraints)</li> <li>Eye irritation</li> <li>Flammable liquit</li> <li>Germ cell mutation</li> <li>Skin sensitisation</li> <li>Specific target of the sensitient of the sensitie</li></ul>	genicity on organ toxicity - repeated exposure organ toxicity - single exposure ational Exposure limits	
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 Test- ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula- tion (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% response; ENS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; ENS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; ENS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCy - Concentration associated with x% response; Emergency - Emergency - Emergency - Emergency - Emergency - Emerg				

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 sub-



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stance; 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

Sources of key data used to compile the Safety Data Sheet	:		data from raw material SDSs, OECD sults and European Chemicals Agen- u/
Classification of the mixtur	e:		Classification procedure:
Eye Irrit. 2	H3 <sup>-</sup>	19	Calculation method
Skin Sens. 1	H3 <sup>-</sup>	17	Calculation method
Muta. 2	H34	41	Calculation method
STOT SE 3	H3:	36	Calculation method
Aquatic Acute 1	H4(	00	Calculation method
Aquatic Chronic 1	H4	10	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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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