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

1.1 Product identifier

Trade name : Ivermectin (2%) Formulation

Other means of identification : Coopers Blowfly and Lice Jetting Fluid (61069)

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 Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
Telephone	:	+1-908-740-4000
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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Eye irritation, Category 2 Specific target organ toxicity - single ex-	H319: Causes serious eye irritation. H371: May cause damage to organs.
posure, Category 2	, , ,
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1	
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	 H319 Causes serious eye irritation. H371 May cause damage to organs. H373 May cause damage to organs through prolong or repeated exposure. H410 Very toxic to aquatic life with long lasting effect 	-
Precautionary statements	:	Prevention:P264Wash skin thoroughly after handling.P273Avoid release to the environment.P280Wear eye protection/ face protection.	
		Response:P308 + P311IF exposed or concerned: Call a POISON CENTER/ doctor.P337 + P313If eye irritation persists: Get medical advice attention.P391Collect spillage.	э/

Hazardous components which must be listed on the label: lvermectin

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
	Registration number		
Polyalkylene oxide derivative of a synthetic alcohol	103818-93-5	Eye Irrit. 2; H319	>= 30 - < 50
Ivermectin	70288-86-7 274-536-0	Acute Tox. 2; H300 Acute Tox. 3; H311 STOT SE 1; H370	>= 1 - < 2.5

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			(Central nervous system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10,000 M-Factor (Chronic aquatic toxicity): 10,000		
Subst	ances with a workpla	ce exposure limit :			
Propy	lene glycol	57-55-6 200-338-0	>= 10 - < 20		

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 university in the case of accident or if you feel university. When symptoms persist or in all case advice. 				
Protection of first-aiders	: First Aid responders should pay atter and use the recommended personal when the potential for exposure exist	protective equipment			
If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms or	cur.			
In case of skin contact	: Wash with water and soap as a preca Get medical attention if symptoms or				
In case of eye contact	 In case of contact, immediately flush for at least 15 minutes. If easy to do, remove contact lens, if Get medical attention. 				
If swallowed	 If swallowed, DO NOT induce vomitir so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an upper sector. 	-			

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4.2 Most important symptoms and effects, both acute and delayed

us eye irritation.
image to organs.
mage to organs through prolonged or repeated
ł

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

	0 0		
	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	None known.
5.2	Special hazards arising from	the	e substance or mixture
	Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Oxides of phosphorus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment.
		Follow safe handling advice (see section 7) and personal pro-
		tective equipment recommendations (see section 8).

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6.2 Enviro	nmental precautions				
Environmental precautions :		Prevent furt Prevent spre barriers). Retain and o If spillage er	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060). 		
6.3 Method	ds and material for co	ntainment and c	leaning up		
Methods for cleaning up		For large sp ment to kee be pumped, Clean up re bent. Local or nat posal of this employed in mine which Sections 13	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local 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 EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment
		Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the

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		use of administr	ative controls.
7.2 C	onditions for safe storage	, including any incor	npatibilities
	Requirements for storage areas and containers		y labelled containers. Store locked up. Store in n the particular national regulations.
Advice on common storage		Strong oxidizing	bstances and mixtures
	pecific end use(s) Specific use(s)	: No data availab	le

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propylene glycol	pylene glycol 57-55-6		150 ppm 474 mg/m3	GB EH40
		TWA (particles)	10 mg/m3	GB EH40
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)

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
Sodium dihy- drogenorthophos- phate	Workers	Inhalation	Long-term systemic effects	4.07 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3.04 mg/m3

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
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Propylene glycol	Fresh water	260 mg/l
	Freshwater - intermittent	183 mg/l
	Marine water	26 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry weight (d.w.)
	Marine sediment	57.2 mg/kg dry weight (d.w.)
	Soil	50 mg/kg dry weight (d.w.)
Sodium dihydrogenorthophos- phate	Fresh water	0.05 mg/l
	Intermittent use/release	0.5 mg/l
	Marine water	0.005 mg/l
	Sewage treatment plant	50 mg/l

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 BS EN 143
Filter type	:	Particulates type (P)

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid Clear white to yellow., Straw-coloured No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water	:	No data available Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
9.2 Other information Flammability (liquids)	:	Not applicable

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Moleo	cular weight	:	No data availabl	9
Partic	le size	:	Not applicable	
SECTION	10: Stability and rea	acti	vity	
10.1 Reac Not c	tivity lassified as a reactivity h	aza	rd.	
	nical stability e under normal conditior	ns.		
10.3 Poss	ibility of hazardous rea	actio	ons	
Haza	rdous reactions	:	Can react with s	rong oxidizing agents.
	litions to avoid			
Cond	itions to avoid	:	None known.	
10.5 Incor	npatible materials			
Mater	rials to avoid	:	Oxidizing agents	
No ha	rdous decomposition	pro	ducts are known.	
SECTION	11: Toxicological ir	itor	mation	
	mation on toxicologica			
	nation on likely routes of			
expos	Sule		Skin contact Ingestion	
Acute	e toxicity		Eye contact	
	e toxicity lassified based on availa	able	Eye contact	
	lassified based on availa	able	Eye contact	
Not c <u>Prod</u>	lassified based on availa		Eye contact	mate: > 2,000 mg/kg on method
Not c <u>Prod</u> Acute	lassified based on availa uct:	:	Eye contact information. Acute toxicity est Method: Calculat	on method mate: > 2,000 mg/kg
Not c <u>Prod</u> Acute Acute	lassified based on availa <u>uct:</u> e oral toxicity	:	Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est	on method mate: > 2,000 mg/kg
Not c <u>Prod</u> Acute Acute	lassified based on availa <u>uct:</u> e oral toxicity e dermal toxicity	:	Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est	on method mate: > 2,000 mg/kg
Not c <u>Prod</u> Acute Acute <u>Com</u>	lassified based on availa <u>uct:</u> e oral toxicity e dermal toxicity ponents:	:	Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est	on method mate: > 2,000 mg/kg on method

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	LD50 (Mouse): 25 mg/kg	
	LD50 (Monkey): > 24 mg/ Target Organs: Central ne Symptoms: Vomiting, Dila Remarks: No mortality ob	ervous system atation of the pupil
toxicity	: LC50 (Rat): 5.11 mg/l Exposure time: 1 h Test atmosphere: dust/mi	st
xicity	: LD50 (Rabbit): 406 mg/kg]
	LD50 (Rat): > 660 mg/kg	
: ol: ty	: LD50 (Rat): 22,000 mg/kg	1
toxicity	: LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/m	
xicity	: LD50 (Rabbit): > 2,000 m Assessment: The substar toxicity	g/kg nce or mixture has no acute derma
/irritation	le information.	
xide derivati	e of a synthetic alcohol:	
	reconstructed human epieOECD Test Guideline 439	
	: No skin irritation	
	: Rabbit : No skin irritation	
ol:		
	 Rabbit OECD Test Guideline 404 No skin irritation 	4
r		 No skin irritation No skin irritation Rabbit OECD Test Guideline 404 No skin irritation

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Com	ponents:					
Polya	alkylene oxide deriva	tive of a	a synthetic alc	ohol:		
Spec Meth			Bovine cornea DECD Test Gui	deline 437		
Resu	lt	: 1	rritation to eyes	, reversing within 21 days		
lvern	nectin:					
Spec Resu			Rabbit ⁄lild eye irritatio	n		
Prop	ylene glycol:					
Spec Meth Resu	od	: (Rabbit DECD Test Gui No eye irritation			
Resp	Respiratory or skin sensitisation					
•	sensitisation	ailable in	formation.			
Poen	iratory consitisation					

Respiratory sensitisation

Not classified based on available information.

Components:

Ivermectin:

Exposure routes	:	Dermal
Species	-	Humans
Result	:	Does not cause skin sensitisation.

Propylene glycol:

:	Maximisation Test
:	Skin contact
:	Guinea pig
:	negative
	:

Germ cell mutagenicity

Not classified based on available information.

Components:

Ivermectin:		
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
	Test Type: DNA damage and repair, unscheduled DNA sy thesis in mammalian cells (in vitro) Test system: human diploid fibroblasts Result: negative	'n-

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			Test Type: Mou Result: negative			
Prop	ylene glycol:					
-	otoxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e		
				omosome aberration test in vitro Test Guideline 473 e		
Geno	otoxicity in vivo	:	cytogenetic ass Species: Mouse	e ite: Intraperitoneal injection		
Carc	inogenicity					
	lassified based on ava	ailable	information.			
Com	ponents:					
lvern	nectin:					
Spec		:	Rat			
Appli NOAI	cation Route	:	Oral	weight		
Resu		:	1.5 mg/kg body negative	weight		
Rema		:		from similar materials		
Spec	ies	:	Mouse			
	cation Route	:	Oral			
NOA	EL	:	2.0 mg/kg body	weight		
Resu		:	negative			
Rema	arks	:	Based on data	from similar materials		
Prop	ylene glycol:					
Spec	ies	:	Rat			
	cation Route	:	Ingestion			
	sure time	:	2 Years			
Resu	π	:	negative			
-	oductive toxicity lassified based on ava	ailable	information.			
Com	ponents:					
lvern	nectin:					
-	ts on fertility	:	Test Type: Fert Species: Rat			
			Application Rou	ite: Ural		

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					0.6 mg/kg body weight sting did not show any effects on fertility.
	ffects	on foetal develop-	:	Result: Teratogen	
				Result: Embryotox spring were detect	: Oral oxicity: LOAEL: 0.4 mg/kg body weight kic effects and adverse effects on the off-
D	Propyle	ene glycol:			
		on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	ffects	on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-foetal development : Ingestion
		single exposure use damage to organs			
		nents:			
Iv	verme	ctin:			
	arget (Organs ment	:	Central nervous s Causes damage t	

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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Com	ponents:		
lvern	nectin:		
	et Organs ssment	 Central nervo Causes dama exposure. 	us system ge to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	ponents:		
lvern	nectin:		
Expo Targe	EL	: Dog : 0.5 mg/kg : 1 mg/kg : Oral : 14 Weeks : Central nervo : Dilatation of th	us system ne pupil, Tremors, Lack of coordination, anorexia
	EL cation Route sure time	: Monkey : 1.2 mg/kg : Oral : 2 Weeks : No significant	adverse effects were reported
Expo	EL	: Rat : 0.4 mg/kg : 0.8 mg/kg : Oral : 3 Months : spleen, Bone	marrow, Kidney
Pron	ylene glycol:		
Spec NOAI Appli	ies	: Rat, male : >= 1,700 mg/l : Ingestion : 2 yr	<g< td=""></g<>
-	ration toxicity lassified based on ava	ailable information.	
Expe	rience with human e	exposure	
Com	ponents:		
	nectin:		
Skin	contact contact	: Remarks: Ma : Symptoms: D	n be absorbed through skin. y irritate eyes. rowsiness, Dilatation of the pupil, Tremors, Vom- n, Lack of coordination

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SECTION 12: Ecological information

12.1 Toxicity

Components:						
Polyalkylene oxide derivative of a synthetic alcohol:						
Toxicity to fish	:	-				
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202				
Ivermectin:						
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.003 mg/l Exposure time: 96 h				
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.0048 mg/l Exposure time: 96 h				
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.000025 mg/l Exposure time: 48 h				
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 9.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201				
		NOEC (Pseudokirchneriella subcapitata (green algae)): 9.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201				
M-Factor (Acute aquatic tox- icity)	:	10,000				
M-Factor (Chronic aquatic toxicity)	:	10,000				
Propylene glycol:						
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h				
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l Exposure time: 48 h				
Toxicity to algae/aquatic plants	:	ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/l Exposure time: 72 h Method: OECD Test Guideline 201				

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	Toxicity	y to microorganisms	:	NOEC (Pseudom Exposure time: 18	onas putida): > 20,000 mg/l 3 h
	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	NOEC: 13,020 m Exposure time: 7 Species: Cerioda	
12.2	2 Persis	tence and degradabil	ity		
	Compo	onents:			
	Polyal	kylene oxide derivativ	/e o	f a synthetic alco	hol:
	Biodeg	radability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials
	lverme	ectin:			
	Biodeg	radability	:	Result: Not readil Biodegradation: 4 Exposure time: 24	50 %
	Propyl	ene glycol:			
	Biodeg	radability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	98.3 %
12.3	Bioaco	cumulative potential			
	Compo	onents:			
	lverme	ectin:			
	Bioacc	umulation	:	Bioconcentration	factor (BCF): 74
	Partitio octano	n coefficient: n- I/water	:	log Pow: 3.22	
		ene glycol:			
	Partitio octano	n coefficient: n- I/water	:	log Pow: -1.07 Method: Regulation	on (EC) No. 440/2008, Annex, A.8
12.4		ty in soil a available			
12.5 Results of PBT and vPvB assessment					
	<u>Produ</u>	<u>ct:</u>			
	Assess	sment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or not very bioaccumulative (vPvB) at levels of

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12.6 Other adverse effects					

Product:

Endocrine disrupting poten- tial	:	This substance/mixture does not contain components considered to have endocrine disrupting properties for environment
		according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ivermectin)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ivermectin)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ivermectin)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ivermectin)
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (Ivermectin)

14.3 Transport hazard class(es)

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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			Class	Subsidiary risks
ADN		:	9	
ADR		:	9	
RID		:	9	
IMDG	ì	:	9	
ΙΑΤΑ		:	9	
14.4 Pack	ing group			
Class	ng group ification Code rd Identification Number s	:	III M6 90 9	
Class Haza Label	ng group ification Code rd Identification Number s el restriction code	:	III M6 90 9 (-)	
Class	ng group ification Code rd Identification Number s	:	III M6 90 9	
Label	ng group	:	III 9 F-A, S-F	
Packi aircra Packi	ng instruction (LQ) ng group	:	964 Y964 III Miscellaneous	
IATA Packi ger a Packi	(Passenger) ng instruction (passen- ircraft) ng instruction (LQ) ng group	:	964 Y964 III Miscellaneous	
	onmental hazards	•	MISCONDIECUS	
ADN				
	onmentally hazardous	:	yes	
ADR Envir	onmentally hazardous	:	yes	

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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.

: Not applicable for product as supplied.

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

Remarks

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (An	nex 17)	:	Conditions of restr lowing entries sho Number on list 3	
			Substance(s) or m here according to t in the regulation, ir use/purpose or the restriction. Please tions in correspond determine whether cable to the placing not.	their appearance respective of their e conditions of the refer to the condi- ding Regulation to an entry is appli-
UK REACH Candidate list of subs concern (SVHC) for Authorisation	, ,	•	Not applicable	
The Persistent Organic Pollutants Regulation (EU) 2019/1021 as am ain)		:	Not applicable	
Regulation (EC) on substances the layer	at deplete the ozone	:	Not applicable	
UK REACH List of substances sub (Annex XIV)	pject to authorisation	:	Not applicable	
GB Export and import of hazardou Informed Consent (PIC) Regulatio		:	Not applicable	
Control of Major Accident Hazards	Regulations 2015 (CON	ЛA		Overstitu 2
E1	ENVIRONMENTAL		Quantity 1 100 t	Quantity 2 200 t

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HAZARDS

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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.			
Full text of H-Statements					
H300		Fatal if swallowed.			
H311	:	Toxic in contact with skin.			
H319		Causes serious eye irritation.			
H370	:	Causes damage to organs if swallowed.			
H372	:	Causes damage to organs through prolonged or repeated			
	•	exposure if swallowed.			
H400	:	Very toxic to aquatic life.			
H410	:	Very toxic to aquatic life with long lasting effects.			
Full text of other abbreviations					
Acute Tox.	:	Acute toxicity			
Aquatic Acute	:	Short-term (acute) aquatic hazard			
Aquatic Chronic	:	Long-term (chronic) aquatic hazard			
Eye Irrit.	:	Eye irritation			
STOT RE	:	Specific target organ toxicity - repeated exposure			
STOT SE	:	Specific target organ toxicity - single exposure			
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits			
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)			

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



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European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Classification of the	Classification procedure:	
Eye Irrit. 2	H319	Calculation method
STOT SE 2	H371	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information 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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