Commission Regulation (EU) 2020/878



Ivermectin (2%) Formulation

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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 th	ne s	ubstance 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	saf	ety 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.
Specific target organ toxicity - single ex-	H371: May cause damage to organs.
posure, Category 2	
Specific target organ toxicity - repeated	H373: May cause damage to organs through pro-
exposure, Category 2	longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1	
Long-term (chronic) aquatic hazard, Cat-	H410: Very toxic to aquatic life with long lasting
egory 1	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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Haza	rd pictograms	:		
Signa	al word	:	Warning	• •
Haza	rd statements	:	H371 H373	Causes serious eye irritation. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Preca	autionary statements	:	P273	Wash skin thoroughly after handling. Avoid release to the environment. Wear eye protection/ face protection.
			P337 + P313	CENTER/ doctor.

Hazardous components which must be listed on the label:

Ivermectin

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.

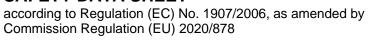
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Polyalkylene oxide derivative of a synthetic alcohol	103818-93-5	Eye Irrit. 2; H319	>= 30 - < 50





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Iverm	ectin	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 aquatic toxicity): 10,000 M-Factor (Chronic aquatic toxicity): 10,000	>= 1 - < 2.5	

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.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, 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 if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.



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4.2 Most important symptoms and effects, both acute and delayed

Risks :	Causes serious eye irritation. May cause damage to organs. May cause damage to organs through prolonged or repeated
	exposure.

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

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 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 Oxides of phosphorus
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.

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		
Enviro	nmental precautions	Prevent spreadir barriers). Retain and dispo	eakage or spillage if safe to do so. Ing over a wide area (e.g. by containment or oil ase of contaminated wash water. should be advised if significant spillages
6.3 Method	ds and material for co	ntainment and clean	ing up
Metho	ds for cleaning up	For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational 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 admin	istrative controls.
7.2 Cond	litions for safe storage	, including any inc	compatibilities
	uirements for storage is and containers		erly labelled containers. Store locked up. Store in with the particular national regulations.
Advi	ice on common storage	Strong oxidiz	substances and mixtures
•	ific end use(s) cific use(s)	: No data avai	lable

SECTION 8: Exposure controls/personal protection

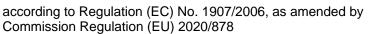
8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propylene glycol	57-55-6	OELV - 8 hrs (TWA) (particles)	10 mg/m3	IE OEL
		OELV - 8 hrs (TWA) (total (va- pour and parti- cles))	150 ppm 470 mg/m3	IE OEL
Ivermectin	mectin 70288-86-7		30 µg/m3 (OEB 3)	Internal
	Further inform	nation: 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
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





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

Substance name	Environmental Compartment	Value
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

	 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 I.S. 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

Physical state	:	liquid
Colour	:	Clear white to yellow., Straw-coloured
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Flash point Auto-ignition temperature	:	No data available No data available
Auto-ignition temperature	:	No data available
Auto-ignition temperature Decomposition temperature	:	No data available No data available
Auto-ignition temperature Decomposition temperature pH Viscosity	:	No data available No data available No data available
Auto-ignition temperature Decomposition temperature pH Viscosity Viscosity, kinematic Solubility(ies)	: :	No data available No data available No data available No data available
Auto-ignition temperature Decomposition temperature pH Viscosity Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n-	: :	No data available No data available No data available No data available
Auto-ignition temperature Decomposition temperature pH Viscosity Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n- octanol/water	: :	No data available No data available No data available No data available No data available Not applicable
Auto-ignition temperature Decomposition temperature pH Viscosity Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n- octanol/water Vapour pressure	: :	No data available No data available No data available No data available Not applicable No data available



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Re	elative vapour density	:	No data available	9
Pa	article characteristics Particle size	:	Not applicable	
	ner information plosives	:	Not explosive	
O	kidizing properties	:	The substance o	r mixture is not classified as oxidizing.
E١	aporation rate	:	No data available	9
M	olecular weight	:	No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity		
Not classified as a reactivity haz	ard	d.
10.2 Chemical stability		
Stable under normal conditions.		
10.3 Possibility of hazardous react	tio	ns
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
10.6 Hazardous decomposition pro	odı	ucts
No hazardous decomposition pr	od	ucts are known.
SECTION 11: Toxicological info	orn	nation

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

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Acute	dermal toxicity	:	Acute toxicity es Method: Calcula	timate: > 2,000 mg/kg tion method
<u>Comp</u>	oonents:			
lverm	ectin:			
Acute	oral toxicity	:	LD50 (Rat): 50 n	ng/kg
			LD50 (Mouse): 2	25 mg/kg
			Symptoms: Vom	> 24 mg/kg Central nervous system iting, Dilatation of the pupil ortality observed at this dose.
Acute	inhalation toxicity	:	LC50 (Rat): 5.11 Exposure time: 1 Test atmosphere	h i
Acute	dermal toxicity	:	LD50 (Rabbit): 4	06 mg/kg
-	corrosion/irritation		LD50 (Rat): > 66	i0 mg/kg
Not cl	assified based on ava <u>conents:</u> Ilkylene oxide deriva es	ailable i ative of :	nformation.	ohol: ıman epidermis (RhE)
Not cl Comp Polya Speci	assified based on ava <u>ponents:</u> Ilkylene oxide deriva es od	ailable i ative of : :	nformation. a synthetic alco reconstructed hu	ohol: ıman epidermis (RhE)
Not cl Comp Polya Speci Metho Resul	assified based on ava <u>conents:</u> Ikylene oxide deriva es od t t t t t t t t t	ailable i ative of : :	nformation. a synthetic alco reconstructed hu OECD Test Guid	ohol: ıman epidermis (RhE)
Not cl Comr Polya Speci Metho Resul Iverm Speci Resul Serio	assified based on ava <u>conents:</u> Ikylene oxide deriva es od t t t t t t t t t	ailable i ative of : : : :	nformation. a synthetic alco reconstructed hu OECD Test Guid No skin irritation Rabbit No skin irritation	ohol: ıman epidermis (RhE)
Not cl Comp Polya Speci Metho Resul Speci Resul Speci Resul	assified based on avaination of the state of	ailable i ative of : : : :	nformation. a synthetic alco reconstructed hu OECD Test Guid No skin irritation Rabbit No skin irritation	ohol: ıman epidermis (RhE)
Not cl Comr Polya Speci Metho Resul Iverm Speci Resul Serio Cause <u>Comr</u>	assified based on ava <u>ponents:</u> ilkylene oxide deriva es od t t t t t t t t	ailable i ative of : : : irritatic	nformation. a synthetic alco reconstructed hu OECD Test Guid No skin irritation Rabbit No skin irritation on	ohol: Iman epidermis (RhE) Jeline 439
Not cl Comr Polya Speci Metho Resul Iverm Speci Resul Serio Cause <u>Comr</u>	assified based on avainable ponents: alkylene oxide derivates bod it es t us eye damage/eye es serious eye irritation ponents: alkylene oxide derivates es	ailable i ative of : : irritatic on. ative of :	nformation. a synthetic alco reconstructed hu OECD Test Guid No skin irritation Rabbit No skin irritation on	ohol: Iman epidermis (RhE) deline 439

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Versio 3.7	on	Revision Date: 28.09.2024		0S Number: 679859-00012	Date of last issue: 06.04.2024 Date of first issue: 05.05.2022
	Species Result	3	:	Rabbit Mild eye irritation	
F	Respira	atory or skin sensitis	atic	n	
-		ensitisation ssified based on availa	able	information.	
	-	atory sensitisation ssified based on availa	able	information.	
<u>c</u>	Compo	nents:			
E	verme Exposu Species Result	re routes	: :	Dermal Humans Does not cause s	kin sensitisation.
		ell mutagenicity ssified based on availa	able	information.	
<u>c</u>	Compo	nents:			
ŀ	verme	ctin:			
C	Genoto	xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				thesis in mammal	lamage and repair, unscheduled DNA syn- ian cells (in vitro) an diploid fibroblasts
				Test Type: Mouse Result: negative	e Lymphoma
		ogenicity ssified based on availa	able	information.	
<u>c</u>	Compo	nents:			
ŀ	verme	ctin:			
S		S tion Route	:	Rat	

Species	: Rat	
Application Route	: Oral	
NOAEL	: 1.5 mg/kg body weight	
Result	: negative	
Remarks	: Based on data from similar materials	
Species Application Route NOAEL Result	 Mouse Oral 2.0 mg/kg body weight 	
Remarks	: negative : Based on data from similar materials	

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-	oductive toxicity assified based on avail	able information.	
<u>Comp</u>	oonents:		
lverm	ectin:		
Effect	s on fertility		
Effect ment	s on foetal develop-	Result: Terate effects on the toxic doses Test Type: De Species: Rat	use oute: Oral al Toxicity: NOAEL: 0.2 mg/kg body weight ogenic effects, Embryotoxic effects and advers offspring were detected only at high maternal evelopment
		Result: Embr spring were d Remarks: The vant in huma	al Toxicity: LOAEL: 0.4 mg/kg body weight yotoxic effects and adverse effects on the off- letected. e mechanism or mode of action may not be rel ns.
			bit
	- single exposure cause damage to organ	s.	
<u>Comp</u>	oonents:		
Targe	ectin: et Organs ssment	: Central nervo : Causes dama	us system age to organs.
	- repeated exposure cause damage to organ	s through prolonge	d or repeated exposure.
<u>Comp</u>	oonents:		
lverm	ectin:		
	et Organs ssment	: Central nervo : Causes dama	us system age to organs through prolonged or repeated

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		exposure.	
Rep	eated dose toxicity		
Com	ponents:		
lver	mectin:		
Expo Targ	NEL .	: Dog : 0.5 mg/kg : 1 mg/kg : Oral : 14 Weeks : Central nervou : Dilatation of th	us system ne pupil, Tremors, Lack of coordination, anorexia
Expo		: Monkey : 1.2 mg/kg : Oral : 2 Weeks : No significant	adverse effects were reported
Expo	NEL .	: Rat : 0.4 mg/kg : 0.8 mg/kg : Oral : 3 Months : spleen, Bone	marrow, 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 Eye contact	:	Remarks: Can be absorbed through skin. 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:		
Polyalkylene oxide derivativ	ve o	f a synthetic alcohol:
Toxicity to fish	:	LC50 : > 1 - 10 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
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
2 Persistence and degradabil	ity	
Components:		
Polyalkylene oxide derivativ	ve o	f a synthetic alcohol:
Biodegradability	:	Result: Readily biodegradable. Remarks: Based on data from similar materials

Ivermectin:

Biodegradability : Result: Not readily biodegradable.

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Biodegradation: 50 % Exposure time: 240 d

12.3 Bioaccumulative potential

Components:

	rm۵	ctin:
110		cum.

Bioaccumulation	:	Bioconcentration factor (BCF): 74
Partition coefficient: n- octanol/water	:	log Pow: 3.22

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: 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.

12.6 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.

12.7 Other adverse effects

No data available

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.



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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. (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)		
			Class Subsidiary risks
	ADN	:	9
	ADR	:	9
	RID	:	9
	IMDG	:	9
	ΙΑΤΑ	:	9
14.4	Packing group		
	ADN Packing group Classification Code Hazard Identification Number Labels ADR Packing group Classification Code Hazard Identification Number		III M6 90 9 9

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



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	Labels Tunnel	restriction code	:	9 (-)	
		g group cation Code Identification Number	:	III M6 90 9	
	IMDG Packing Labels EmS C		:	III 9 F-A, S-F	
	aircraft	g instruction (cargo) g instruction (LQ)	:	964 Y964 III Miscellaneous	
	Packing ger airc	g instruction (LQ)	:	964 Y964 III Miscellaneous	
14.5	5 Enviro	nmental hazards			
	ADN Enviror	mentally hazardous	:	yes	
	ADR Enviror	mentally hazardous	:	yes	
	RID Enviror	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) Imentally hazardous	:	yes	
	IATA ((Enviror	Cargo) Imentally 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

Remarks

: Not applicable for product as supplied.



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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
		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.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals REACH - List of substances subject to authorisation : 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.

		Quantity I	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

Other regulations:

(Annex XIV)

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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.

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



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SEC	TION	16: Other information	on		
	Other i	nformation	:		nges have been made to the previous version the body of this document by two vertical
l	Full te	xt of H-Statements			
	H300 H311 H319 H370 H372 H400 H410		:	Causes damage t exposure if swalld Very toxic to aqua	vith skin. ye irritation. to organs if swallowed. to organs through prolonged or repeated owed.
I	Full te	xt of other abbreviation	ons		
		c Acute c Chronic t. RE SE		Eye irritation Specific target or Specific target or Ireland. List of Ch	e) aquatic hazard ic) aquatic hazard gan toxicity - repeated exposure gan toxicity - single exposure nemical Agents and Carcinogens with Occu- e Limit Values - Code of Practice, Schedule 1
I	IE OEL	. / OELV - 8 hrs (TWA)	:		osure limit value (8-hour 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 -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 - (Quanti-



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tative) 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; 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 Sheet		eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
		oy, mp.//oona.ou/opa.ou/

e mixture:	Classification procedure:
H319	Calculation method
H371	Calculation method
H373	Calculation method
H400	Calculation method
H410	Calculation method
	H319 H371 H373 H400

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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