

Versic 9.0		Revision Date: 28.09.2024	SDS Number: 1204380-00027		Date of last issue: 06.07.2024 Date of first issue: 09.01.2017				
SECT	SECTION 1: Identification of the substance/mixture and of the company/undertaking								
<b>1.1 Product identifier</b> Trade name : Ivermectin Liquid Formulation									
<b>1.2 Relevant identified uses of</b> Use of the Sub- stance/Mixture			e substance or mixture and uses advised against : Veterinary product						
	Recommended restrictions on use		:	Not applicable					
1.3 De	etails o	f the supplier of the	e saf	ety data sheet					
C	Company		:	MSD 20 Spartan Road 1619 Spartan, Se	outh Africa				
Т	Felepho	ne	:	+27119239300					
		ddress of person ble for the SDS	:	EHSDATASTEW	ARD@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)

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H360D: May damage the unborn child.
H371: May cause damage to organs.
H335: May cause respiratory irritation.
H373: May cause damage to organs through pro- longed or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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



ersion )	Revision Date: 28.09.2024		lumber: 80-00027	Date of last issue: 06.07.2024 Date of first issue: 09.01.2017
Hazar	d pictograms			! 坐
Signa	l word	: Dar	nger	▼ ▼
Hazard statements		H33 H36 H37 H37	9 Causes 5 May cau 60D May dar 71 May cau 73 May cau eated exposi	skin irritation. serious eye irritation. se respiratory irritation. nage the unborn child. se damage to organs. se damage to organs through prolonged or ire. ic to aquatic life with long lasting effects.
Preca	utionary statements	: Pre	vention:	
			4 Wash sk 3 Avoid re	pecial instructions before use. in thoroughly after handling. lease to the environment. otective gloves/ protective clothing/ eye protec- tion.
		P30	NTER/ docto	

Ivermectin

### **Additional Labelling**

Restricted to professional users.

### 2.3 Other hazards

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

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

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
N-Methyl-2-pyrrolidone	872-50-4	Skin Irrit. 2; H315	>= 10 - < 20
	212-828-1	Eye Irrit. 2; H319	
	606-021-00-7	Repr. 1B; H360D	
		STOT SE 3; H335	



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lverme	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.
In case of skin contact :	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
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. 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 skin irritation.
	Causes serious eye irritation.
	May cause respiratory irritation.
	May damage the unborn child.
	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.
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### **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	n 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 Nitrogen oxides (NOx)
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	6.2 Environmental precautions							
Environmental precautions		<ul> <li>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. Local authorities should be advised if significant spillages cannot be contained.</li> </ul>						
6.3 Metho	ds and material for co	entainment and cle	eaning up					
Methods for cleaning up		For large spil ment to keep be pumped, s Clean up rem bent. Local or natio posal of this employed in mine which re Sections 13 a	inert absorbent material. Is, 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 EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. 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 Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
Hygiene measures	:	environment. 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.



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			engineering contr appropriate dego	ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the tive controls.
7.2 Conditi	ons for safe storage,	inc	luding any incom	patibilities
	ements for storage and containers	:	tightly closed. Ke	abelled containers. Store locked up. Keep ep in a cool, well-ventilated place. Store in the particular national regulations.
Advice	on common storage	:	Strong oxidizing a	stances and mixtures
7.3 Specifi	c end use(s)			
Specifi	c use(s)	:	No data available	

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
N-Methyl-2- pyrrolidone	872-50-4	TWA	10 ppm 40 mg/m3	2009/161/EU
		STEL	20 ppm 80 mg/m3	2009/161/EU
		TWA	10 ppm 40 mg/m3	2004/37/EC
		STEL	20 ppm 80 mg/m3	2004/37/EC
Ivermectin	70288-86-7	TWA	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
N-Methyl-2- pyrrolidone	Workers	Inhalation	Long-term systemic effects	14,4 mg/m3
	Workers	Inhalation	Long-term local ef- fects	40 mg/m3
	Workers	Skin contact	Long-term systemic effects	4,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	3,6 mg/m3



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I		Consumers	Inhalation		Long-term local ef- fects	4,5 mg/m3
		Consumers	Skin conta	ct	Long-term systemic effects	2,4 mg/kg bw/day
Π		Consumers	Ingestion		Long-term systemic effects	0,85 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
N-Methyl-2-pyrrolidone	Fresh water	0,25 mg/l
	Freshwater - intermittent	5 mg/l
	Marine water	0,025 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1,09 mg/kg dry weight (d.w.)
	Marine sediment	1,09 mg/kg dry weight (d.w.)
	Soil	0,07 mg/kg dry weight (d.w.)

### 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 Hand 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.
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-
Filter type	:	ommended guidelines, use respiratory protection. Combined particulates and organic vapour type (A-P)

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

### 9.1 Information on basic physical and chemical properties

9.1	information on basic physical	an	u chemical properties
	Appearance Colour Odour Odour Threshold	:	liquid light yellow characteristic No data available
	рН	:	No data available
	Melting point/freezing point	:	No data available
	Initial boiling point and boiling range	:	No data available
	Flash point	:	> 100 °C
	Evaporation rate	:	No data available
	Flammability (solid, gas)	:	Not applicable
	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	:	0,90 - 0,92 g/cm³
	Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	:	insoluble Not applicable 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)	:	No data available
	Molecular weight	:	No data available



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Partic	le size	:	Not applicable	
SECTION	I 10: Stability and re	acti	vity	
<b>10.1 Reac</b> Not c	<b>tivity</b> lassified as a reactivity h	naza	ard.	
	nical stability e under normal condition	ns.		
10.3 Poss	ibility of hazardous re	acti	ons	
	rdous reactions	:		rong oxidizing agents.
	litions to avoid itions to avoid	:	None known.	
	npatible materials	:	Oxidizing agents	
No ha	rdous decomposition azardous decomposition	n pro	ducts are known.	
SECTION	I 11: Toxicological ii	nfor	mation	
	mation on toxicologican nation on likely routes o		fects Inhalation	
expos	sure		Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	able	information.	
Prod	uct:			
Acute	oral toxicity	:	Acute toxicity est Method: Calculat	mate: > 2.000 mg/kg on method
Acute	e dermal toxicity	:	Acute toxicity est Method: Calculat	mate: > 2.000 mg/kg on method
Com	oonents:			
N-Me	thyl-2-pyrrolidone:			
	oral toxicity	:	LD50 (Rat): 4.150	) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5,1 Exposure time: 4 Test atmosphere Method: OECD T	h

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Acut	te dermal toxicity		LD50 (Rat): > 5.0	00 ma/ka
Acu	le definal toxicity	•	LD30 (Nat). > 3.0	00 mg/kg
	mectin:			
Acu	te oral toxicity	:	LD50 (Rat): 50 m	g/kg
			LD50 (Mouse): 2	5 mg/kg
			Symptoms: Vomi	> 24 mg/kg entral nervous system ting, Dilatation of the pupil rtality observed at this dose.
Acu	te inhalation toxicity	:	LC50 (Rat): 5,11 Exposure time: 1 Test atmosphere	h
Acut	te dermal toxicity	:	LD50 (Rabbit): 40	)6 mg/kg
			LD50 (Rat): > 660	) mg/kg
Cau <u>Con</u>	n corrosion/irritation ses skin irritation. nponents: ethyl-2-pyrrolidone:			
Res		:	Skin irritation	
lver	mectin:			
Spe Res		:	Rabbit No skin irritation	
	ous eye damage/eye irr ses serious eye irritation.		on	
<u>Con</u>	nponents:			
N-M	ethyl-2-pyrrolidone:			
Spe Res		:	Rabbit Irritation to eyes,	reversing within 21 days
lver	mectin:			
Spe Res		:	Rabbit Mild eye irritation	
Res	piratory or skin sensitis	satio	on	
Skir	n sensitisation			

Not classified based on available information.

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Resp	iratory sensitisation		
Not cl	lassified based on ava	ailable information.	
<u>Comp</u>	oonents:		
N-Me	thyl-2-pyrrolidone:		
Test			ode assay (LLNA)
Expos Speci	sure routes	: Skin contact : Mouse	
Metho		: OECD Test Gu	ideline 429
Resul		: negative	
Rema	arks	: Based on data	from similar materials
lverm	nectin:		
Expos	sure routes	: Dermal	
Speci	es	: Humans	
Resul	lt	: Does not cause	e skin sensitisation.
Germ	cell mutagenicity		
	lassified based on ava	ailable information.	
<u>Comp</u>	oonents:		
N-Me	thyl-2-pyrrolidone:		
Geno	toxicity in vitro		cterial reverse mutation assay (AMES) 0 Test Guideline 471 re
			ritro mammalian cell gene mutation test ) Test Guideline 476 re
			A damage and repair, unscheduled DNA syn- nalian cells (in vitro) re
Geno	toxicity in vivo	thesis in mamr Result: negativ : Test Type: Mar cytogenetic as Species: Mous Application Ro	nalian cells (in vitro) re mmalian erythrocyte micronucleus test (in vivo say) e ute: Ingestion 0 Test Guideline 474
Geno	toxicity in vivo	thesis in mamme Result: negative : Test Type: Marcytogenetic as Species: Mous Application Ro Method: OECE Result: negative Test Type: Murcytogenetic tes Species: Hams Application Ro	nalian cells (in vitro) re mmalian erythrocyte micronucleus test (in vivo say) e ute: Ingestion ) Test Guideline 474 re tagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) ster ute: Ingestion ) Test Guideline 475
	toxicity in vivo	thesis in mamme Result: negative : Test Type: Marcytogenetic as Species: Moust Application Ro Method: OECE Result: negative Test Type: Murcytogenetic tes Species: Hams Application Ro Method: OECE	nalian cells (in vitro) re mmalian erythrocyte micronucleus test (in vivo say) e ute: Ingestion ) Test Guideline 474 re tagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) ster ute: Ingestion ) Test Guideline 475



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		thesis in mam	IA damage and repair, unscheduled DNA syn- malian cells (in vitro) numan diploid fibroblasts ve
		Test Type: Mo Result: negativ	use Lymphoma ve
	<b>nogenicity</b> assified based on ava	lable information	
	oonents:		
	thyl-2-pyrrolidone:		
Specie		: Rat	
Applic	ation Route	: Ingestion	
Expos	sure time	: 2 Years	
Result	t	: negative	
Specie		: Rat	
Applic	ation Route	: inhalation (vap	pour)
Expos Result	sure time	: 2 Years : negative	
Itesui	l de la construcción de la constru	. negative	
lverm	ectin:		
Specie		: Rat	
Applic	ation Route	: Oral	v woight
Result		: 1,5 mg/kg bod : negative	
Rema			from similar materials
Specie	es	: Mouse	
	ation Route	: Oral	
NOAE		: 2,0 mg/kg bod	y weight
Result Rema	-	: negative : Based on data	a from similar materials
-	oductive toxicity		
May d	lamage the unborn chi	ld.	
Comp	oonents:		
N-Met	thyl-2-pyrrolidone:		
	s on fertility	: Test Type: Tw	o-generation reproduction toxicity study
		Species: Rat Application Ro Method: OECI Result: negativ	D Test Guideline 416
Effect: ment	s on foetal develop-	Species: Rat Application Ro	nbryo-foetal development oute: Ingestion D Test Guideline 414
		12/2	1



ersion 0	Revision Date: 28.09.2024	SDS Number: 1204380-00027	Date of last issue: 06.07.2024 Date of first issue: 09.01.2017
		Result: positive Test Type: Fer	e tility/early embryonic development
		Species: Rat	ute: inhalation (vapour)
		Test Type: Em Species: Rabb Application Ro Result: positive	ute: Ingestion
Repro sessn	oductive toxicity - As- nent	: Clear evidence animal experim	e of adverse effects on development, based on nents.
lverm	ectin:		
Effect	s on fertility		
Effect ment	s on foetal develop-	Result: Teratog	e
		Result: Embryo spring were de	ute: Oral I Toxicity: LOAEL: 0,4 mg/kg body weight otoxic effects and adverse effects on the off- tected. mechanism or mode of action may not be rele
			it

May cause respiratory irritation. May cause damage to organs.

### Components:

N-Methyl-2-pyrrolidone:

Assessment

: May cause respiratory irritation.



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	<b>nectin:</b> et Organs ssment	: Central nervous : Causes damag	
	- repeated exposure		
	cause damage to orgai ponents:	is through proionged	or repeated exposure.
	nectin:		
Targe	et Organs ssment	: Central nervous : Causes damag exposure.	s system e to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u>	oonents:		
N-Me	thyl-2-pyrrolidone:		
	EL EL cation Route sure time	: Rat, male : 169 mg/kg : 433 mg/kg : Ingestion : 90 Days : OECD Test Gu	ideline 408
	EL EL cation Route sure time	: Rat : 0,5 mg/l : 1 mg/l : inhalation (dust : 96 Days : OECD Test Gu	
	ΞL	: Rabbit : 826 mg/kg : 1.653 mg/kg : Skin contact : 20 Days	
lverm	nectin:		
Expo	EL EL cation Route sure time et Organs	: Dog : 0,5 mg/kg : 1 mg/kg : Oral : 14 Weeks : Central nervous : Dilatation of the	s system e pupil, Tremors, Lack of coordination, anorexia
		: Monkey : 1,2 mg/kg : Oral : 2 Weeks	



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Rema	arks	: No significan	: No significant adverse effects were reported				
Species NOAEL LOAEL Application Route Exposure time Target Organs		: Rat : 0,4 mg/kg : 0,8 mg/kg : Oral : 3 Months : spleen, Bone	0,4 mg/kg 0,8 mg/kg Oral				
Not c Expe	ration toxicity lassified based on ava rience with human e						
N-Me	ponents: ethyl-2-pyrrolidone: contact	: Symptoms: S	Skin irritation				
Skin	nectin: contact contact stion	: Remarks: Ca : Remarks: Ma : Symptoms: I	an be absorbed through skin. ay irritate eyes. Drowsiness, Dilatation of the pupil, Tremors, Vom- a, Lack of coordination				

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

### 12.1 Toxicity

### Components:

### N-Methyl-2-pyrrolidone:

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 24 h Method: DIN 38412
Toxicity to algae/aquatic plants	ErC50 (Desmodesmus subspicatus (green algae)): 600,5 mg/l Exposure time: 72 h
	EC10 (Desmodesmus subspicatus (green algae)): 92,6 mg/l Exposure time: 72 h
Toxicity to microorganisms	EC50 : > 600 mg/l Exposure time: 30 min Method: ISO 8192
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	NOEC: 12,5 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

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lverme	ectin:				
Toxicity to fish		:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,003 mg/l Exposure time: 96 h		
			LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0,0048 mg/l 5 h	
	y to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,000025 mg/l Exposure time: 48 h		
Toxicity plants	y to algae/aquatic	:	EC50 (Pseudoking mg/l Exposure time: 72 Method: OECD T		
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T		
M-Fact icity)	or (Acute aquatic tox-	:	10.000		
M-Fact toxicity	or (Chronic aquatic )	:	10.000		
12.2 Persis	tence and degradabil	ity			
Compo	onents:				
	<b>nyl-2-pyrrolidone:</b> radability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	73 %	
Iverme	ectin:				
Biodeg	radability	:	Result: Not readil Biodegradation: Exposure time: 24	50 %	
12.3 Bioaco	cumulative potential				
Compo	onents:				
N-Meth	yl-2-pyrrolidone:				
Partitio octano	n coefficient: n- l/water	:	log Pow: -0,46 Method: OECD T	est Guideline 107	
<b>Iverme</b> Bioacc	ectin: umulation	:	Bioconcentration	factor (BCF): 74	



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	ility in soil				
	ata available				
12.5 Resi	Its of PBT and vPvB a	sses	sment		
Prod					
Asse	ssment		to be either per	/mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of	
12.6 Othe	r adverse effects				
Prod	uct:				
Endo tial	crine disrupting poten-	:	ered to have er REACH Article	mixture does not contain components consid- docrine disrupting properties according to 57(f) or Commission Delegated regulation ) or Commission Regulation (EU) 2018/605 at or higher.	
SECTION	N 13: Disposal consi	dera	tions		
13 1 Wast	te treatment methods				
Produ		:	According to the are not product Waste codes shows a strain of the strai	ccordance with local regulations. e European Waste Catalogue, Waste Codes specific, but application specific. hould be assigned by the user, preferably in the waste disposal authorities.	
Conta	aminated packaging	:	<ul> <li>Do not dispose of waste into sewer.</li> <li>Empty containers should be taken to an approved waste h dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>		
SECTION	N 14: Transport infor	mati	on		
14.1 UN n	umber				
ADN		:	UN 3082		
ADR			UN 3082		
RID			UN 3082		
IMDO	3		UN 3082		
ΙΑΤΑ			UN 3082		
	oroper shipping name	-			
ADN		:	ENVIRONMEN N.O.S. (Ivermectin)	TALLY HAZARDOUS SUBSTANCE, LIQUID	
ADR		:	. ,	TALLY HAZARDOUS SUBSTANCE, LIQUID	

(Ivermectin)



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	RID		:	ENVIRONMENTA N.O.S. (Ivermectin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	IMDG		:	ENVIRONMENTA N.O.S. (Ivermectin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	ΙΑΤΑ		:	Environmentally h (Ivermectin)	nazardous substance, liquid, n.o.s.
14.3	3 Trans	port hazard class(es)			
				Class	Subsidiary risks
	ADN		:	9	·
	ADR		:	9	
	RID		:	9	
	IMDG		:	9	
	ΙΑΤΑ		:	9	
14.4	Packir	ng group			
	ADN				
	Packin Classif	g group ication Code I Identification Number	:	III M6 90 9	
	Classif Hazaro Labels	g group ication Code I Identification Number restriction code		III M6 90 9 (-)	
	<b>RID</b> Packin Classif	g group ication Code I Identification Number	: : : :	III M6 90 9	
	IMDG Packin Labels EmS C		:	III 9 F-A, S-F	
	Packin aircraft Packin Packin	g instruction (LQ) g group	:	964 Y964 III	
	Labels		:	Miscellaneous	
	Packin ger airo		:	964	
	Packin	g instruction (LQ)	:	Y964	



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Packing group Labels		:	III Miscellaneous		
14.5	5 Enviro	onmental hazards			
	<b>ADN</b> Enviror	nmentally hazardous	:	yes	
	<b>ADR</b> Enviror	nmentally hazardous	:	yes	
	<b>RID</b> Enviro	nmentally hazardous	:	yes	
	<b>IMDG</b> Marine	pollutant	:	yes	
		Passenger) nmentally hazardous	:	yes	
	•	<b>Cargo)</b> nmentally 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 Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable for product as supplied.

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

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

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.



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H31	-	:	Causes skin irritat			
	H319		Causes serious eye irritation. May cause respiratory irritation.			
	H335 H360D		May damage the unborn child.			
H37		:		o organs if swallowed.		
H372		:		o organs through prolonged or repeated		
H40	C	:	Very toxic to aqua			
H41	C	:		atic life with long lasting effects.		
Full text of other abbreviations						
Acut	e Tox.	:	Acute toxicity			
	atic Acute	:	Short-term (acute	, ,		
	atic Chronic	:	Long-term (chroni	ic) aquatic hazard		
Eye		:	Eye irritation			
Rep		:	Reproductive toxi	city		
Skin		:	Skin irritation			
	T RE	:		gan toxicity - repeated exposure		
	T SE	:		gan toxicity - single exposure		
2004	I/37/EC	:	•	2004/37/EC on the protection of workers ted to exposure to carcinogens or mutagens		
2009	9/161/EU	:	a third list of indic	SION DIRECTIVE 2009/161/EU establishing ative occupational exposure limit values in Council Directive 98/24/EC and amending ctive 2000/39/EC		
2004	/37/EC / STEL	:	Short term exposi	ure limit		
2004	I/37/EC / TWA	:	Long term exposu			
2009	9/161/EU / TWA	:	Limit Value - eigh			
2009	9/161/EU / STEL	:	Short term exposi	ure limit		

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 - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European



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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 mixture: Classification procedure:** Skin Irrit. 2 H315 Calculation method Eye Irrit. 2 H319 Calculation method Repr. 1B H360D Calculation method STOT SE 2 H371 Calculation method H335 STOT SE 3 Calculation method STOT RE 2 H373 Calculation method Aquatic Acute 1 H400 Calculation method Aquatic Chronic 1 H410 Calculation method

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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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