



Version 11.0	Revision Date: 28.09.2024		S Number: 04363-00026	Date of last issue: 06.07.2024 Date of first issue: 09.01.2017			
SECTION	1. IDENTIFICATION						
Produ	Product identifier		Ivermectin Liquid Formulation				
Manu	facturer or supplier's	s detai	ils				
Comp	Company		MSD				
Addre	Address		Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340				
Telep	hone	:	908-740-4000				
Emer	gency telephone	:	1-908-423-6000				
E-ma	E-mail address		EHSDATASTEWARD@msd.com				
Reco	mmended use of the	chem	ical and restriction	ons on use			
Recommended use Restrictions on use		:	Veterinary product Not applicable				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 StandardAcute toxicity (Oral): Category 5						
Skin irritation	:	Category 2				
Eye irritation	:	Category 2A				
Reproductive toxicity	:	Category 1B				
Specific target organ toxicity - single exposure (Oral)	:	Category 2 (Central nervous system)				
Specific target organ toxicity - single exposure	:	Category 3				
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system)				
Short-term (acute) aquatic hazard	:	Category 1				
Long-term (chronic) aquatic hazard	:	Category 1				

GHS label elements in accordance with ABNT NBR 14725 Standard



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Hazar	d pictograms		!
Signa	l Word	: Danger	
Hazar	d Statements	H315 Causes H319 Causes H335 May cau H360D May da H371 May cau swallowed. H373 May cau through prolon	harmful if swallowed. skin irritation. serious eye irritation. se respiratory irritation. amage the unborn child. se damage to organs (Central nervous systen se damage to organs (Central nervous systen ged or repeated exposure if swallowed. ic to aquatic life with long lasting effects.
Preca	utionary Statements	P264 Wash sk P270 Do not e P271 Use only P273 Avoid re	pecial instructions before use. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protec ection.
		tor if you feel u P302 + P352 I P304 + P340 - and keep com doctor if you fe P305 + P351 - for several mir easy to do. Co P308 + P311 I CENTER/ doc P332 + P313 I tion.	F ON SKIN: Wash with plenty of water. P312 IF INHALED: Remove person to fresh a fortable for breathing. Call a POISON CENTER wel unwell. P338 IF IN EYES: Rinse cautiously with water butes. Remove contact lenses, if present and antinue rinsing. F exposed or concerned: Call a POISON tor. f skin irritation occurs: Get medical advice/ atter f eye irritation persists: Get medical advice/ atter
		Storage: P405 Store loo	sked up.

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture



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Com	Components						
Chem	nical name	CAS-No.	Classification	Concentration (% w/w)			
N-Me	thyl-2-pyrrolidone	872-50-4	Flam. Liq., 4 Acute Tox. (Oral), 5 Skin Irrit., 2 Eye Irrit., 2A Repr., 1B STOT SE, 3	>= 10 -< 20			
lverm	iectin	70288-86-7	Acute Tox. (Oral), 2 Acute Tox. (Dermal), 3 STOT SE, (Oral)(Central nervous system) , 1 STOT RE, (Oral)(Central nervous system) , 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 1 -< 2,5			

SECTION 4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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.
Most important symptoms and effects, both acute and delayed	 May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May damage the unborn child. May cause damage to organs if swallowed. May cause damage to organs through prolonged or repeated
Protection of first-aiders	 exposure if swallowed. 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).



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1	Notes t	o physician	:	Treat symptomation	cally and supportively.		
SECT	TION 5	. FIRE-FIGHTING ME	ASU	IRES			
Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical				
	Unsuitable extinguishing media		:	None known.			
	Specific hazards during fire fighting		:	Exposure to comb	pustion products may be a hazard to health.		
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (NOx)			
	Specific ods	c extinguishing meth-	:	 Use extinguishing measures that are appropriate to loca cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is saf so. Evacuate area. 			
	•	protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	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.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked 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.



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			nd 15 of this SDS provide information regarding or national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Tech	nnical measures		ing measures under EXPOSURE
Loca	I/Total ventilation		PERSONAL PROTECTION section. ntilation is unavailable, use with local exhaust
Advi	ce on safe handling	: Do not get on Do not breath Do not swallo Do not get in Wash skin the Handle in acc practice, base assessment Keep containe Already sensi to asthma, all should consul respiratory irr Do not eat, dr	
Hygi	ene measures	: If exposure to flushing syste place. When using d Wash contam The effective engineering c appropriate d industrial hyg	chemical is likely during typical use, provide eye ms and safety showers close to the working lo not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.
Cond	ditions for safe storage	: Keep in prope Store locked Keep tightly c Keep in a coo	erly labeled containers. up.
Mate	erials to avoid	: Do not store v Strong oxidizi	vith the following product types: ng agents substances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	



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Iverm	ectin	70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal
			ation: Skin		
			Wipe limit	300 µg/100 cm2	Internal

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis			
N-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of workday	100 mg/l	BR BEI			
		5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI			
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 equ	ipment								
Respiratory protection Filter type Hand protection	espiratory protection : If a exp rec Filter type : Cor			If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type					
Material	: Ch	Chemical-resistant gloves							
Remarks Eye protection Skin and body protection	nsider double ear safety glass ne work enviro sts or aerosols ear a faceshield ential for direc rosols. ork uniform or l ditional body g k being perforr posable suits) e appropriate on taminated clo	ses with side nment or act , wear the ap d or other ful t contact to t aboratory co arments sho med (e.g., sho to avoid exp degowning te	ivity involve propriate g I face prote he face with at. uld be used eevelets, ap osed skin s	es dusty condit oggles. ction if there is h dusts, mists, d based upon to pron, gauntlets surfaces.	s a or the s,				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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Ph	ysical state	:	liquid	
Co	lor	:	light yellow	
Od	or	:	characteristic	
Od	or Threshold	:	No data available	
рH		:	No data available)
Me	Iting point/freezing point	:	No data available)
	ial boiling point and boiling nge	:	No data available	
Fla	ish point	:	> 100 °C	
Ev	aporation rate	:	No data available)
Fla	mmability (solid, gas)	:	Not applicable	
Fla	mmability (liquids)	:	No data available)
	per explosion limit / Upper mmability limit	:	No data available	
	wer explosion limit / Lower mmability limit	:	No data available	
Va	por pressure	:	No data available)
Re	lative vapor density	:	No data available	
Re	lative density	:	No data available	
De	nsity	:	0,90 - 0,92 g/cm ³	
So	lubility(ies) Water solubility	:	insoluble	
	rtition coefficient: n- anol/water	:	Not applicable	
	toignition temperature	:	No data available	9
De	composition temperature	:	No data available	9
Vis	cosity Viscosity, kinematic	:	No data available	
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.



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Μ	Molecular weight		:	: No data available				
-	Particle Particle	characteristics size	:	Not applicable				
SECTION 10. STABILITY AND REACTIVITY								
C P tic C In H	Reactivity Chemical stability Possibility of hazardous reac- tions Conditions to avoid Incompatible materials Hazardous decomposition products			 Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents. None known. Oxidizing agents No hazardous decomposition products are known. 				
SECT	ION 1 1	I. TOXICOLOGICAL I	NFC	ORMATION				
	nforma exposui	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact				
Μ	/lay be	oxicity harmful if swallowed.						
	Produc Acute o	<u>t:</u> ral toxicity	:	Acute toxicity estin Method: Calculation	mate: 4.463 mg/kg on method			
A	Acute dermal toxicity		:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method				
<u>c</u>	Compo	nents:						
		yl-2-pyrrolidone:						
A	cute o	ral toxicity	:	LD50 (Rat): 4.150	mg/kg			
A	cute ir	halation toxicity	:	LC50 (Rat): > 5,1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist			
A	cute d	ermal toxicity	:	LD50 (Rat): > 5.00	00 mg/kg			
١v	verme	ctin:						
A	cute o	ral toxicity	:	LD50 (Rat): 50 m	g/kg			
				LD50 (Mouse): 25	mg/kg			
				Symptoms: Vomit	24 mg/kg entral nervous system ing, Dilatation of the pupil tality observed at this dose.			



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Acute	inhalation toxicity	:	LC50 (Rat): 5,11 Exposure time: 1 Test atmosphere	h
Acute	e dermal toxicity	:	LD50 (Rabbit): 4	06 mg/kg
			LD50 (Rat): > 66	0 mg/kg
	corrosion/irritation es skin irritation.			
<u>Com</u>	oonents:			
	thyl-2-pyrrolidone:			
Resu	lt	:	Skin irritation	
lverm	nectin:			
Speci Resu		:	Rabbit No skin irritation	
N-Me	thyl-2-pyrrolidone:			
Speci Resu	es	:	Rabbit Irritation to eyes,	reversing within 21 days
Speci Resu	es It	:		reversing within 21 days
Speci Resu Iverm	ies It nectin:	:	Irritation to eyes, Rabbit	
Speci Resu	ies It nectin:	:	Irritation to eyes,	
Speci Resu Iverm Speci Resu	ies It nectin:		Irritation to eyes, Rabbit Mild eye irritatior	
Speci Resu Verm Speci Resu Resp Skin	ies nectin: ies it	izatio	Irritation to eyes, Rabbit Mild eye irritation	
Speci Resu Speci Resu Resp Skin Not c Resp	es It nectin: es It iratory or skin sensit sensitization	i zatic ilable	Irritation to eyes, Rabbit Mild eye irritation n information.	
Speci Resu Speci Resu Resp Skin Not c Resp Not c	es It nectin: es It iratory or skin sensit sensitization lassified based on ava iratory sensitization	i zatic ilable	Irritation to eyes, Rabbit Mild eye irritation n information.	
Speci Resu Speci Resu Resp Skin Not c Resp Not c Com	es It nectin: es It iratory or skin sensit sensitization lassified based on ava iratory sensitization lassified based on ava <u>bonents:</u> thyl-2-pyrrolidone:	i zatic ilable	Irritation to eyes, Rabbit Mild eye irritation n information.	
Speci Resu Speci Resu Resp Skin Not c Resp Not c Com N-Me	es It nectin: es It iratory or skin sensit sensitization lassified based on ava iratory sensitization lassified based on ava <u>bonents:</u> thyl-2-pyrrolidone: Type	i zatic ilable	Irritation to eyes, Rabbit Mild eye irritation n information.	
Speci Resu Speci Resu Resu Resp Skin Not c Resp Not c Com N-Me Route Speci	ies it ies it iratory or skin sensit sensitization lassified based on ava iratory sensitization lassified based on ava ponents: thyl-2-pyrrolidone: Type es of exposure ies	i zatic ilable	Irritation to eyes, Rabbit Mild eye irritation n information. information. Local lymph nod Skin contact Mouse	e assay (LLNA)
Speci Resu Speci Resu Resp Skin Not c Resp Not c Com N-Me Test Route	es It nectin: les It iratory or skin sensit sensitization lassified based on ava iratory sensitization lassified based on ava <u>ponents:</u> thyl-2-pyrrolidone: Type es of exposure les od	ilable ilable ilable	Irritation to eyes, Rabbit Mild eye irritation n information. information.	e assay (LLNA)



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	nectin: as of exposure	:	Dermal	
Speci Resul	es	:	Humans	e skin sensitization.
	a cell mutagenicity lassified based on ava	ailable	information.	
<u>Com</u>	oonents:			
N-Me	thyl-2-pyrrolidone:			
Geno	toxicity in vitro	:		eterial reverse mutation assay (AMES) Test Guideline 471 e
				itro mammalian cell gene mutation test Test Guideline 476 e
				A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e
Geno	toxicity in vivo	:	cytogenetic ass Species: Mous Application Ro	e ute: Ingestion 9 Test Guideline 474
			cytogenetic tes Species: Hams Application Rol	ute: Ingestion • Test Guideline 475
lverm	ectin:			
Geno	toxicity in vitro	:	Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
			thesis in mamn	A damage and repair, unscheduled DNA syn- nalian cells (in vitro) uman diploid fibroblasts e
			Test Type: Mou Result: negativ	

Carcinogenicity

Not classified based on available information.



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Components:		
N-Methyl-2-pyrrolidone: Species Application Route Exposure time Result	: Rat : Ingestion : 2 Years : negative	
Species Application Route Exposure time Result	: Rat : inhalation (vapor) : 2 Years : negative	
Ivermectin: Species Application Route NOAEL Result Remarks Species Application Route NOAEL Result Remarks	: Mouse : Oral : 2,0 mg/kg body w : negative	om similar materials
Reproductive toxicity May damage the unborn child <u>Components:</u>	l.	
N-Methyl-2-pyrrolidone: Effects on fertility	Species: Rat Application Route Method: OECD T	eneration reproduction toxicity study e: Ingestion est Guideline 416
Effects on fetal development	Species: Rat Application Route	vo-fetal development e: Ingestion est Guideline 414
	Species: Rat	y/early embryonic development :: inhalation (vapor)
	Test Type: Embry Species: Rabbit Application Route Result: positive	vo-fetal development : Ingestion



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Repro sessn	oductive toxicity - As- nent	:	Clear evidence animal experime	of adverse effects on development, based o ents.		
lverm	nectin:					
Effect	s on fertility	:				
Effects on fetal development		:	: Test Type: Development Species: Mouse Application Route: Oral Developmental Toxicity: NOAEL: 0,2 mg/kg body of Result: Teratogenic effects., Embryotoxic effects a effects on the offspring were detected only at high toxic doses			
			Result: Embryot spring were dete	te: Oral Toxicity: LOAEL: 0,4 mg/kg body weight oxic effects and adverse effects on the off-		
May o	-single exposure cause respiratory irritatio					
-	cause damage to organs conents:	(Ce	entral nervous sys	stem) if swallowed.		
N-Me Asses	thyl-2-pyrrolidone: ssment	:	May cause resp	iratory irritation.		
lverm	nectin:					
Targe	et Organs ssment	:	Central nervous Causes damage			

STOT-repeated exposure

May cause damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.



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Com	oonents:		
Targe	nectin: et Organs ssment	: Central nervou : Causes damag exposure.	is system ge to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
N-Me	thyl-2-pyrrolidone:		
	EL EL cation Route sure time	: Rat, male : 169 mg/kg : 433 mg/kg : Ingestion : 90 Days : OECD Test Gr	uideline 408
	EL EL cation Route sure time	: Rat : 0,5 mg/l : 1 mg/l : inhalation (dus : 96 Days : OECD Test Gu	
	ΞL	: Rabbit : 826 mg/kg : 1.653 mg/kg : Skin contact : 20 Days	
lverm	nectin:		
Speci NOAE LOAE Applic Expos	es EL EL cation Route sure time et Organs	: Dog : 0,5 mg/kg : 1 mg/kg : Oral : 14 Weeks : Central nervou : Dilatation of th	is system e pupil, Tremors, Lack of coordination, anorexia
Speci NOAE Applic Expos Rema	EL cation Route sure time	: Monkey : 1,2 mg/kg : Oral : 2 Weeks : No significant :	adverse effects were reported
Expo	ΞL	: Rat : 0,4 mg/kg : 0,8 mg/kg : Oral : 3 Months : spleen, Bone r	narrow, Kidney



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-	ration toxicity lassified based on ava	ailable	information.					
Expe	Experience with human exposure							
Com	oonents:							
	thyl-2-pyrrolidone:		0					
Skin o	contact	:	Symptoms: Skin i	rritation				
Skin d	contact		Remarks: May irr Symptoms: Drow	e absorbed through skin. itate eyes. siness, Dilatation of the pupil, Tremors, Vom- ack of coordination				

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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 daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 12,5 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms	:	EC50: > 600 mg/l Exposure time: 30 min Method: ISO 8192
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	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 9,1



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plant	S		osure time: 72	2 h est Guideline 201
		mg/l Exp	osure time: 72	rchneriella subcapitata (green algae)): 9,1 2 h est Guideline 201
icity)	ctor (Acute aquatic tox-	: 10.0	00	
M-Fa toxici	ctor (Chronic aquatic ty)	: 10.0	00	
Persi	istence and degradabil	ty		
<u>Com</u>	ponents:			
N-Me	thyl-2-pyrrolidone:			
Biode	egradability	Bioc Exp	legradation: osure time: 28	
lvern	nectin:			
Biode	egradability	Bioc	ult: Not readil legradation: osure time: 24	
Bioa	ccumulative potential			
Com	ponents:			
N-Me	thyl-2-pyrrolidone:			
Partit octar	ion coefficient: n- nol/water		Pow: -0,46 nod: OECD T	est Guideline 107
lvern	nectin:			
Bioad	ccumulation	: Bioc	oncentration	factor (BCF): 74
	ion coefficient: n- nol/water	: log l	Pow: 3,22	
Mobi	lity in soil			
No da	ata available			
	r adverse effects ata available			

 Disposal methods

 Waste from residues
 : Do not dispose of waste into sewer. Dispose of in accordance with local regulations.





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Conta	minated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.
ECTION	14. TRANSPORT INFO	RM	ATION
Intern	ational Regulations		
UNRT	DG		
UN nu	Imber	:	UN 3082
Prope	r shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU N.O.S. (Ivermectin)
Class		:	9
	ng group	:	III
Labels		:	9
	onmentally hazardous	:	yes
IATA-			
UN/ID		:	UN 3082
-	r shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Ivermectin)
Class		÷	9 III
Labels	ng group	:	Miscellaneous
	ng instruction (cargo	:	964
Packir ger air	ng instruction (passen-	:	964
Enviro	onmentally hazardous	:	yes
IMDG			
UN nu		:	UN 3082
Prope	r shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU N.O.S. (Ivermectin)
Class		•	9
	ng group	÷	
Labels		:	9
EmS (:	F-A, S-F
Marine	e pollutant	:	yes
	port in bulk according		Annex II of MARPOL 73/78 and the IBC Code
•	estic regulation		
	-		
ANTT			
UN nu Prope	imper r shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU N.O.S.
			(Ivermectin)
Class		:	9
	ng group	:	III
Labels		:	9
Hazar	d Identification Number	:	90



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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.

SECTION 15. REGULATORY INFORMATION

Safety, health and environ mixture	mental regulations/legislation specifi	c for the substance or					
National List of Carcinogenic (LINACH)	licable						
Brazil. List of chemicals cont Police	Brazil. List of chemicals controlled by the Federal : Not applicable Police						
The ingredients of this pro	duct are reported in the following inv	entories:					
AICS	: not determined						
DSL	: not determined						
IECSC	: not determined						

SECTION 16. OTHER INFORMATION

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Date format	:	dd.mm.yyyy

Further information

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

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 other abbreviations

ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
BR BEI	:	Brazil. NR7. Parameters for Biological Control of Occupational
		Exposure to Some Chemical Agents

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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



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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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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 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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