

## **Doramectin Formulation**

Version 6.0	Revision Date: 06.07.2024	-	S Number: 91213-00014	Date of last issue: 06.04.2024 Date of first issue: 22.10.2019				
SECTION	SECTION 1. IDENTIFICATION							
Produ	Product name		Doramectin Formulation					
Manu	Manufacturer or supplier's details							
Comp	bany	:	MSD					
Addre	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP					
Telep	Telephone		908-740-4000					
Emer	Emergency telephone		1-908-423-6000					
E-ma	E-mail address		EHSDATASTEWARD@msd.com					
Reco	Recommended use of the chemical and restrictions on use							
	mmended use ictions on use	:	Veterinary produ Not applicable	ct				

## SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Acute toxicity (Oral)	:	Category 5
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure (Oral)	:	Category 2 (Central nervous system)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system, Liver, Kidney)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H303 May be harmful if swallowed.



Version       Revision Date:       SDS Number:       Date of last issue: 06.04.2024         6.0       06.07.2024       5191213-00014       Date of first issue: 22.10.2019         H360D May damage the unborn child.       H371 May cause damage to organs (Central nervous syster swallowed.         H373 May cause damage to organs (Central nervous syster Liver, Kidney) through prolonged or repeated exposure if sw lowed.         H410 Very toxic to aquatic life with long lasting effects.         Precautionary Statements       :         Prevention:         P201 Obtain special instructions before use.         P202 Do not handle until all safety precautions have been re and understood.         P260 Do not breathe mist or vapors.         P264 Wash skin thoroughly after handling.         P270 Do not eat, drink or smoke when using this product.         P273 Avoid release to the environment.         P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.         Response:         P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.         P391 Collect spillage.         Storage:						
<ul> <li>H371 May cause damage to organs (Central nervous syster swallowed.</li> <li>H373 May cause damage to organs (Central nervous syster Liver, Kidney) through prolonged or repeated exposure if sw lowed.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been re and understood.</li> <li>P260 Do not breathe mist or vapors.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>Response:</li> <li>P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.</li> <li>P391 Collect spillage.</li> <li>Storage:</li> </ul>						
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-						
P405 Store locked up.						
<b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.						
Other hazards which do not result in classification						
None known.						
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS						
Substance / Mixture : Mixture						
Components						

Chemical name	CAS-No.	Concentration (% w/w)
Oils, sesame	8008-74-0	>= 70 -< 90
Doramectin	117704-25-3	>= 1 -< 2,5

## SECTION 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medica advice.</li> </ul>	al
If inhaled	: If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	: In case of contact, immediately flush skin with soap and pler of water.	าty



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	In case of eye contact If swallowed		Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention.				
and	Most important symptoms and effects, both acute and delayed		Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. May be harmful if swallowed. May damage the unborn child. May cause damage to organs if swallowed. May cause damage to organs through prolonged or repeated				
Prot	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).				
Note	Notes to physician		Treat symptomatically and supportively.				
SECTIO	N 5. FIRE-FIGHTING ME	ASL	JRES				
Suit	able extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical				
	Unsuitable extinguishing media		None known.				
Spe	cific hazards during fire	:	Exposure to comb	pustion products may be a hazard to health.			
Haz ucts	ardous combustion prod-	:	Carbon oxides				
Spe ods	cific extinguishing meth-	:	cumstances and t Use water spray t Remove undamag so.	measures that are appropriate to local cir- the surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do			
	cial protective equipment ire-fighters	:		e, wear self-contained breathing apparatus. tective 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.



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	ds and materials for nment and cleaning up	:	For large spills, p containment to ke can be pumped, s container. Clean up remaining absorbent. Local or national disposal of this m employed in the of determine which Sections 13 and	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.

#### SECTION 7. HANDLING AND STORAGE

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	<ul> <li>Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
Conditions for safe storage	<ul> <li>Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Keep tightly closed.</li> <li>Store in accordance with the particular national regulations.</li> </ul>
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oils, sesame	8008-74-0	CMP (Mist)	10 mg/m³	AR OEL



rsion )	Revision Date: 06.07.2024	SDS Number:Date of last issue: 06.04.20245191213-00014Date of first issue: 22.10.2019
Dorar	nectin	117704-25-3   TWA   25 μg/m3 (OEB 3)   Internal
		Further information: Skin           Wipe limit         250 μg/100 cm2         Internal
		Wipe limit 250 µg/100 cm2 Internal
Engir	neering measures	<ul> <li>Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).</li> <li>All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.</li> <li>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).</li> <li>Minimize open handling.</li> </ul>
Perso	onal protective equip	ment
·	iratory protection ter type	<ul> <li>If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.</li> <li>Particulates type</li> </ul>
	protection	. Fanculates type
Ma	aterial	: Chemical-resistant gloves
	emarks protection	<ul> <li>Consider double gloving.</li> <li>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.</li> </ul>
Skin a	and body protection	<ul> <li>Work uniform or laboratory coat.</li> <li>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.</li> <li>Use appropriate degowning techniques to remove potentially contaminated clothing.</li> </ul>
Hygie	ne measures	<ul> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> <li>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 use of administrative controls.</li> </ul>

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	oily
Color	:	light yellow



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Odor		:	characteristic	
Odor T	hreshold	:	No data available	)
рН		:	No data available	)
Melting	g point/freezing point	:	-7 °C	
Initial b range	poiling point and boiling	:	270 °C	
Flash p	point	:	215,7 °C	
Evapoi	ration rate	:	No data available	)
Flamm	ability (solid, gas)	:	Not applicable	
Flamm	ability (liquids)	:	Not applicable	
	explosion limit / Upper ability limit	:	No data available	
	explosion limit / Lower ability limit	:	No data available	
Vapor	pressure	:	No data available	)
Relativ	e vapor density	:	No data available	)
Relativ	e density	:	0,89 - 91	
Density	y	:	No data available	)
Solubil Wa	ity(ies) ter solubility	:	practically insolul	ble
	n coefficient: n-	:	Not applicable	
octano Autoigi	nition temperature	:	No data available	•
Decom	position temperature	:	No data available	9
Viscos Visc	ity cosity, kinematic	:	31,7 - 32,1 m²/s (	25 °C)
Explos	ive properties	:	Not explosive	
Oxidizi	ng properties	:	The substance of	mixture is not classified as oxidizing.
Molecu	ılar weight	:	No data available	)
Particle Particle	e characteristics e size	:	Not applicable	



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#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
May be harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 5.000 mg/kg Method: Calculation method
Components:		
Oils, sesame:		
Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Remarks: Based on data from similar materials
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg
Doramectin:		
Acute oral toxicity	:	LD50 (Rat): 500 mg/kg Target Organs: Central nervous system
		LD50 (Mouse): > 2.000 mg/kg Target Organs: Central nervous system
		LD50 (Rat): 50 mg/kg Target Organs: Central nervous system
		LD50 (Mouse): 75 mg/kg Target Organs: Central nervous system
Acute toxicity (other routes of administration)	:	LD50 (Rat): > 300 mg/kg Application Route: Intraperitoneal Target Organs: Central nervous system



Skin corrosion/irritation         Not classified based on available information.         Components:         Oils, sesame:         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation         Not classified based on available information.         Components:         Oils, sesame:         Species       : Rabbit         Result       : No eye irritation         Result       : No eye irritation         Respiratory or skin sensitization       Sin sensitization         Not classified based on available information.       Respiratory sensitization         Not classified based on available information.       Components:         Oils, sesame:       .         Test Type       : Skin contact         Result       : negative         Gen cell mutagenicity       : negative         Not classified based on available information.       Components:         Oils, sesame:       : negative         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Doramectin:       .         Genotoxicity in vitro       : Test Type: Ames test Result: negative         Test Type: Unscheduled DNA synthesis assay Result: negative<	ersion .0	Revision Date: 06.07.2024		S Number: 91213-00014	Date of last issue: 06.04.2024 Date of first issue: 22.10.2019
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Oils, sesame:         Species       ::       Rabbit         Result       ::       No skin irritation         Serious eye damage/eye irritation       Not classified based on available information.         Components:       Oils, sesame:         Species       ::       Rabbit         Result       ::       No eye irritation         Skin sensitization       Skin sensitization         Skin sensitization       Not classified based on available information.         Respiratory sensitization       Not classified based on available information.         Respiratory sensitization       Not classified based on available information.         Not classified based on available information.       Components:         Oils, sesame:       :         Test Type       ::         Result       ::         Result       ::         Not classified based on available information.         Components:       Oils, sesame:         Gern cell mutagenicity         Not classified based on available information.         Components:         Oils, sesame:         Genotoxicity in vitro       :         Result: negative         Doramectin:         Genotoxicity in vitro       :	Not c	lassified based on ava	ailable i	nformation.	
Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation         Not classified based on available information.         Components:         Oils, sesame:         Species       : Rabbit         Result       : No eye irritation         Respiratory or skin sensitization         Skin sensitization         Not classified based on available information.         Respiratory sensitization         Not classified based on available information.         Components:         Oils, sesame:         Test Type       : Human repeat insult patch test (HRIPT)         Routes of exposure       : Skin contact         Result       : negative         Gern cell mutagenicity       Not classified based on available information.         Not classified based on available information.       Components:         Oils, sesame:       : negative         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Doramectin:       : Test Type: Ames test         Genotoxicity in vitro       : Test Type: Mouse Lymphoma Result: negative         Test Type: unscheduled DNA synthesis assay Result: negative         Genotoxicity in vivo       : Test Type: Micronucleus te	Com	ponents:			
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Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Doramectin:       : Test Type: Ames test Result: negative         Genotoxicity in vitro       : Test Type: Mouse Lymphoma Result: negative         Test Type: unscheduled DNA synthesis assay Result: negative         Genotoxicity in vivo       : Test Type: Micronucleus test	Oils.	sesame:			
Genotoxicity in vitro       : Test Type: Ames test Result: negative         Test Type: Mouse Lymphoma Result: negative         Test Type: unscheduled DNA synthesis assay Result: negative         Genotoxicity in vivo       : Test Type: Micronucleus test			:		erial reverse mutation assay (AMES)
Genotoxicity in vitro       : Test Type: Ames test Result: negative         Test Type: Mouse Lymphoma Result: negative         Test Type: unscheduled DNA synthesis assay Result: negative         Genotoxicity in vivo       : Test Type: Micronucleus test	Dora	mectin:			
Result: negative         Test Type: unscheduled DNA synthesis assay         Result: negative         Genotoxicity in vivo         :       Test Type: Micronucleus test	Geno	toxicity in vitro	:		stest
Result: negative         Genotoxicity in vivo       : Test Type: Micronucleus test					e Lymphoma
					neduled DNA synthesis assay
	Geno	toxicity in vivo	:		nucleus test



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				Result: negative	
	Germ c Assess	ell mutagenicity - ment	:	Weight of evidenc cell mutagen.	e does not support classification as a germ
		<b>ogenicity</b> ssified based on availa	ble	information.	
	Compo	onents:			
	Doramo Carcinc ment	ectin: ogenicity - Assess-	:	Weight of evidenc cinogen	e does not support classification as a car-
		<b>luctive toxicity</b> mage the unborn child. pnents:			
	Doram				
		on fetal development	:	Species: Rat Application Route	ity.: NOAEL: 0,3 mg/kg body weight
				Species: Mouse Application Route	ity.: NOAEL: 3 mg/kg body weight
				Species: Rabbit Application Route General Toxicity N	o-fetal development : Oral /aternal: NOAEL: 0,75 mg/kg body weight nal effects., Embryotoxic effects.
	Reprod sessme	uctive toxicity - As- ent	:	Clear evidence of animal experimen	adverse effects on development, based on ts.
	STOT-	single exposure			
		use damage to organs	(Ce	entral nervous syste	em) if swallowed.
	Compo	onents:			
	Doram	ectin:			

# Routes of exposure<br/>Target Organs:Oral<br/>:Central nervous system:Central nervous systemAssessment:Shown to produce significant health effects in animals at concentrations of 300 mg/kg bw or less.



ersion )	Revision Date: 06.07.2024		S Number: 91213-00014	Date of last issue: 06.04.2024 Date of first issue: 22.10.2019
sтот	-repeated exposure			
	ause damage to organ ted exposure if swallov		entral nervous syste	em, Liver, Kidney) through prolonged or
Comp	onents:			
Dorar	nectin:			
Targe	s of exposure t Organs sment	:		system, Liver, Kidney e significant health effects in animals at con- mg/kg bw or less.
Repea	ated dose toxicity			
Comp	onents:			
Dorar	nectin:			
Expos		:	Rat 30 mg/kg Oral 3 Months Central nervous s	system
Speci	es	:	Rat	
NOAE		:	2 mg/kg	
	ation Route sure time		Oral 3 Months	
	t Organs	:		system, Liver, Kidney
Specie	es	:	Dog	
NOAE		:	2 mg/kg	
	ation Route sure time	:	Oral 36 d	
	t Organs	:	Eye	
Symp	toms	:	Dilatation of the p	upil
Speci		:	Dog	
NOAE	:L ation Route	:	0,1 mg/kg Oral	
	sure time	:	92 d	
Targe	t Organs	:	Central nervous s	
Symp	toms	:	Dilatation of the p	upil
Aspir	ation toxicity			
Not cl	assified based on avail	lable	information.	
Exper	ience with human ex	posu	re	
<u>Comp</u>	oonents:			
Dorar	nectin:			
Skin c	contact	:	Symptoms: Naus	entral nervous system



ersion 0	Revision Date: 06.07.2024		DS Number:Date of last issue: 06.04.202491213-00014Date of first issue: 22.10.2019
Ingest	tion	:	Target Organs: Eye Symptoms: Irritation Target Organs: Skin Symptoms: Irritation Target Organs: Respiratory system Symptoms: Breathing difficulties Target Organs: Gastro-intestinal system Symptoms: Nausea, Abdominal pain, Diarrhea Target Organs: Central nervous system Symptoms: Dizziness
ECTION	12. ECOLOGICAL INFO	ORN	MATION
Ecoto	oxicity		
Comp	oonents:		
	<b>nectin:</b> ity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 11 µg/l Exposure time: 96 h Method: OECD Test Guideline 203
			LC50 (Oncorhynchus mykiss (rainbow trout)): 5,1 µg/l Exposure time: 96 h Method: OECD Test Guideline 203
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,1 μg/l Exposure time: 48 h Method: OECD Test Guideline 202
M-Fac toxicit	ctor (Chronic aquatic y)	:	10.000
	oxicology Assessment		
Acute	aquatic toxicity	:	Very toxic to aquatic life.
Persi	stence and degradabil	ity	
<u>Comp</u>	oonents:		
	<b>sesame:</b> gradability	:	Result: Readily biodegradable.
Bioac	cumulative potential		
<u>Comp</u>	oonents:		
Dorar	nectin:		
Bioac	cumulation	:	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305
Destit	on coefficient: n-		log Pow: 4,5



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	ility in soil			
	<u>ponents:</u> mectin:			
Distri		:	log Koc: 4,94	
Othe	r adverse effects			
<u>Com</u>	ponents:			
Resu	<b>mectin:</b> lts of PBT and vPvB ssment	:	Substance is not (vPvB).	very persistent and very bioaccumulative

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

#### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

<b>UNRTDG</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class Packing group Labels Environmentally hazardous	: :	(Doramectin) 9 III 9 yes
<b>IATA-DGR</b> UN/ID No. Proper shipping name	:	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Doramectin)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code UN number	:	UN 3082



Version 6.0	Revision Date: 06.07.2024		Number: 213-00014	Date of last issue: 06.04.2024 Date of first issue: 22.10.2019
Prope	er shipping name	N	NVIRONMEN .O.S. Doramectin)	NTALLY HAZARDOUS SUBSTANCE, LIQUID,
Class		: 9		
Packing group		: 111		
Label	S	: 9		
EmS	Code			
Marine pollutant			es	

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### 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 environmental regulations/legislation specific for the substance or mixture							
Argentina. Carcinogenic Subs Registry.	stances and Agents : Not applicable						
Control of precursors and essential chemicals for the : Not applicable preparation of drugs.							
The ingredients of this product are reported in the following inventories:							
AICS	: not determined						
DSL	: not determined						

: not determined

#### **SECTION 16. OTHER INFORMATION**

Revision Date	:	06.07.2024
Date format	:	dd.mm.yyyy

#### **Further information**

IECSC

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

AR OEL	:	Argentina. Occupational Exposure Limits
AR OEL / CMP	:	TLV (Threshold Limit Value)



## **Doramectin Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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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 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.

AR / Z8