

Tilmicosin Formulation

Version 5.0	Revision Date: 28.09.2024		S Number: 56748-00014	Date of last issue: 06.07.2024 Date of first issue: 08.09.2021		
SECTION 1. IDENTIFICATION						
Produ	Product identifier		Tilmicosin Formulation			
Manu	ifacturer or supplier's	s deta	ils			
Comp	bany	:	MSD			
Addre	ess	:	Rua Coronel Be Cruzeiro - Sao F	nto Soares, 530 Paulo - Brazil CEP 12730-340		
Telep	Telephone		908-740-4000			
Emer	Emergency 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		
	mmended use ictions on use	:	Veterinary produ Not applicable	ict		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accord Acute toxicity (Oral)	ano :	ce with ABNT NBR 14725 Standard Category 4
Eye irritation	:	Category 2A
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Heart, Lungs)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements in accord Hazard pictograms	dan :	ince with ABNT NBR 14725 Standard
Signal Word	:	Warning
Hazard Statements	:	H302 Harmful if swallowed. H319 Causes serious eye irritation.



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		H373 May cau prolonged or re	ed of damaging fertility or the unborn child. se damage to organs (Heart, Lungs) through epeated exposure if swallowed. ic to aquatic life with long lasting effects.
Preca	autionary Statements	[:] Prevention:	
		P270 Do not e P273 Avoid rel	pecial instructions before use. at, drink or smoke when using this product. ease to the environment. otective gloves/ protective clothing/ eye protec- ection.
		Response:	
		CENTER/ doct P305 + P351 + for several min easy to do. Co P308 + P313 I attention.	F exposed or concerned: Get medical advice/ f eye irritation persists: Get medical advice/ at-
		Storage: P405 Store loc	sked up.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Tilmicosin	137330-13-3	Acute Tox. (Oral), 4 Eye Irrit., 2B Repr., 2 STOT RE, (Oral)(Heart, Lungs), 2 Aquatic Acute, 1 Aquatic Chronic, 1	>= 30 -< 50
Phosphoric acid	7664-38-2	Met. Corr., 1 Acute Tox. (Oral), 4 Skin Corr., 1B Eye Dam., 1	>= 1 -< 3

SECTION 4. FIRST AID MEASURES



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Gene	General advice		 In the case of accident or if you feel unwell, seek medic advice immediately. When symptoms persist or in all cases of doubt seek m advice. 				
lf inh	aled		If inhaled, remove to fresh air. Get medical attention.				
In ca	In case of skin contact		In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
In ca	In case of eye contact		In case of contact for at least 15 mir	t, immediately flush eyes with plenty of water nutes. ove contact lens, if worn.			
lf swa	If swallowed		If swallowed, DO Get medical atter Rinse mouth thor	NOT induce vomiting.			
	important symptoms effects, both acute and /ed	:					
Prote	ection 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).				
Note				cally and supportively.			

SECTION 5. FIRE-FIGHTING MEASURES

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 combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Oxides of phosphorus
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.
Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.



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for fir	e-fighters		Use personal p	rotective equipment.			
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES				
Personal precautions, protec- tive equipment and emer- gency procedures		:	Follow safe han	otective equipment. dling advice (see section 7) and personal ment recommendations (see section 8).			
Envir	onmental precautions	:	Prevent further Prevent spread oil barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ng over a wide area (e.g., by containment or ose of contaminated wash water. s should be advised if significant spillages nined.			
	ods and materials for ainment and cleaning up	:	For large spills, containment to can be pumped container. Clean up remain absorbent. Local or nationa disposal of this employed in the determine which Sections 13 and	ert absorbent material. provide diking or other appropriate keep material from spreading. If diked materia , store recovered material in appropriate ning materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to n regulations are applicable. d 15 of this SDS provide information regarding mational requirements.			
SECTION	7. HANDLING AND ST	OR	AGE				
Technical measures		:	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.				
Local/Total ventilation			: Use only with adequate ventilation.				

rechnical measures	CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not breathe mist or vapors.
, attee en eare namaling	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
	assessment
	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 contaminated clothing before re-use.
	The effective operation of a facility should include review of



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ctive equipment, n procedures, eillance and the onal regulations. s:
n ei

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Tilmicosin	137330-13-3	TWA	0.2 mg/m3 (OEB	Internal
			2)	
Phosphoric acid	7664-38-2	TWA	1 mg/m ³	ACGIH
		STEL	3 mg/m ³	ACGIH

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. Laboratory operations do not require special containment.
Personal protective equipm	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type	:	Combined particulates, acidic and inorganic gas/vapor type
Hand protection Material	:	Chemical-resistant gloves
Eye 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.
Skin and body protection	:	Work uniform or laboratory coat.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	dark yellow
Odor	:	No data available



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	Odor T	hreshold	:	No data available)
	рН		:	3,5 - 6,5	
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	No data available)
	Evapor	ration rate	:	No data available)
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	No data available)
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	9
	Vapor	pressure	:	No data available)
	Relativ	e vapor density	:	No data available)
	Relativ	e density	:	No data available)
	Density	ý	:	1,00 - 1,200 g/cm	1 ³
	Solubil Wat	ity(ies) ter solubility	:	No data available	9
		n coefficient: n-	:	No data available)
	octano Autoigr	nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi Visc	ity cosity, kinematic	:	No data available	9
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	9
	Particle Particle	e characteristics e size	:	Not applicable	



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SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

	Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
	Acute toxicity		
	Harmful if swallowed.		
	Product:		
	Acute oral toxicity	:	Acute toxicity estimate: 1.467 mg/kg Method: Calculation method
	Components:		
	Tilmicosin:		
I	Acute oral toxicity	:	LD50 (Rat): 800 - 850 mg/kg
	Acute dermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg
	Acute toxicity (other routes of administration)	:	LD50 (Mouse): 97 mg/kg Application Route: Subcutaneous
			LD50 (Rat): 185 mg/kg Application Route: Subcutaneous
•	Phosphoric acid:		
	Acute oral toxicity	:	LD50 (Rat): 2.000 mg/kg Method: OECD Test Guideline 423
	Acute inhalation toxicity	:	Assessment: Corrosive to the respiratory tract.
	Skin corrosion/irritation		
	Not classified based on availal	ole	information.
	Componentes		

Components:

Tilmicosin:

Species	:	Rabbit
Result	:	No skin irritation



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Phos Resu Rema			r 3 minutes to 1 hour of exposure onal or regional regulation.
	ous eye damage/eye ses serious eye irritatio		
Com	ponents:		
Tilmi	icosin:		
Spec Resu		: Rabbit : Mild eye irritat	ion
Phos	sphoric acid:		
Spec Resu		: Rabbit : Irreversible eff	ects on the eye
Resp	piratory or skin sensi	tization	
•••••	sensitization	ailable information.	
-	biratory sensitization classified based on ava		
<u>Com</u>	ponents:		
Tilmi	icosin:		
		: Intracutaneou : Dermal : Guinea pig : Not a skin ser	
Corr	a coll mutagonicity		
	n cell mutagenicity classified based on ava	ailable information.	
	ponents:		
	icosin:		
	ptoxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: Mo Result: negati	ouse Lymphoma ve
			scheduled DNA synthesis assay Chinese hamster ovary cells ve
Genc	otoxicity in vivo	: Test Type: sis Species: Ham Result: negati	
		Test Type: Ch	romosomal aberration
		0 / 11	_



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		Species: Rat Result: negative	
sphoric acid:			
otoxicity in vitro	:		o mammalian cell gene mutation test est Guideline 476
			ial reverse mutation assay (AMES) est Guideline 471
			osome aberration test in vitro est Guideline 473
	ble	information.	
oductive toxicity			
	y or	the unborn child.	
ponents:			
icosin:			
ts on fertility	:	Species: Rat Application Route	
ets on fetal development	:	Species: Rat Application Route Developmental To	: Oral oxicity: NOAEL: 10 mg/kg body weight
		Species: Rabbit Application Route Developmental To Result: Maternal t	: Oral pxicity: LOAEL: 8 mg/kg body weight oxicity observed., Reduced fetal weight.,
oductive toxicity - As- ment	:	May damage the	unborn child.
sphoric acid:			
ts on fertility	:	reproduction/deve Species: Rat Application Route	
	28.09.2024 sphoric acid: otoxicity in vitro inogenicity classified based on availa oductive toxicity ected of damaging fertilit ponents: cosin: ts on fertility ts on fertility ts on fetal development oductive toxicity - As- ment sphoric acid:	28.09.2024 94 sphoric acid: btoxicity in vitro inogenicity dassified based on available oductive toxicity ected of damaging fertility or ponents: cosin: ts on fertility ts on fetal development oductive toxicity - As- oductive toxicity - As- oductive toxicity - As- sphoric acid:	28.09.2024 9456748-00014 Species: Rat Result: negative apportic acid: attack attack



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Effec	ts on fetal development	:		
	T-single exposure classified based on availa	ble	information.	
STO	T-repeated exposure			
	cause damage to organs owed.	5 (He	eart, Lungs) throug	h prolonged or repeated exposure if
Com	ponents:			
Tilmi	icosin:			
Targe	es of exposure et Organs ssment	:	Oral Heart, Lungs May cause damag exposure.	ge to organs through prolonged or repeated
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
Tilmi	icosin:			
Expo	EL	· · ·	Rat 50 mg/kg 250 mg/kg Oral 3 Months Kidney, Liver, Hea gland	art, spleen, Gastrointestinal tract, Adrenal
Symp	otoms	:	weight loss, reduc	ced food consumption
Expo	EL EL cation Route sure time et Organs	:	Dog 4 mg/kg 12 mg/kg Oral 12 Months Heart weight loss, Incre	ased heart rate
Expo		:	Dog 47 mg/m3 Inhalation 16 d Lungs	
Spec NOA		:	Rat 250 mg/kg Ingestion	



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Expos Metho	sure time od	: 40 - 52 Days : OECD Test G	uideline 422
Not cl	ration toxicity lassified based on ava rience with human e		
Com	ponents:		
Tilmi	cosin:		
Inhala	ation		: Gastrointestinal tract ausea, Vomiting
Skin o	contact	: Target Organs Symptoms: tin	
Eye c	contact	: Target Organs Symptoms: bu	: Eye rning or stinging of the eye, Swelling of tissue
Inges	tion	: Target Organs	: Central nervous system xiety, Headache, Light-headedness, Thirst
SECTION	12. ECOLOGICAL IN	IFORMATION	

Ecotoxicity

Components:

Tilmicosin:

minicosin.		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 851 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 716 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 57,3 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 0,354 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC10 (Anabaena flos-aquae (cyanobacterium)): 0,008 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	1
M-Factor (Chronic aquatic toxicity)	:	10
Phosphoric acid:		
Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 96 h



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II			Method: OECD T	est Guideline 203
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h est Guideline 202
Toxic plants	ity to algae/aquatic S	:	Exposure time: 7	smus subspicatus (green algae)): > 100 mg/l 2 h est Guideline 201
			Exposure time: 7	esmus subspicatus (green algae)): > 100 mg/l 2 h est Guideline 201
Toxic	ity to microorganisms	:		
	stence and degradabil ata available	ity		
Bioad	ccumulative potential			
Com	ponents:			
Tilmi	cosin:			
Bioac	cumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 450 est Guideline 305
	ion coefficient: n- ol/water	:	log Pow: 3,8	
Mobi	lity in soil			
No da	ata available			

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	: Empty containers should be taken to an approved waste
	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations	
UNRTDG	

UN number

: UN 3082



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Prop	er shipping name	:	ENVIRONMENT/ N.O.S. (Tilmicosin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labe	ting group	:	9 III 9 yes	
UN/II	A-DGR D No. er shipping name	:	UN 3082 Environmentally f (Tilmicosin)	nazardous substance, liquid, n.o.s.
Labe Pack	ting group els ting instruction (cargo	:	9 III Miscellaneous 964	
ger a	aft) ting instruction (passen- aircraft) ronmentally hazardous	:	964 yes	
UN r	G-Code humber er shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labe EmS	king group	: : :	(Tilmicosin) 9 III 9 F-A, S-F yes	
Tran	•	-		OL 73/78 and the IBC Code
Dom	estic regulation	-		
-	T humber er shipping name	:	UN 3082 ENVIRONMENT/ N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,

(Tilmicosin) Class : 9 Packing group : III Labels : 9 Hazard Identification Number : 90

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



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National List of Carcinogenic Agents for Humans - : Not applicable (LINACH)						
	Brazil. List of chemicals controlled by the Federal : Phosphoric acid Police					
The ingredients of this product are reported in the following inventories: AICS : not determined						
DSL		: not determined				
IECS	C	: 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	: (JSA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA ACGIH / STEL		3-hour, time-weighted average Short-term exposure limit

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 Develop-



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ment; 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 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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