Version

10.0



Date of last issue: 23.04.2024

Date of first issue: 08.09.2021

Tilmicosin Formulation

Revision Date:

06.07.2024

Sec	tion 1: Identification			
	Product name	:	Tilmicosin Formulation	
	Manufacturer or supplier's de	etai	ls	
	Company	:	MSD	
	Address	:	33 Whakatiki Street - Private Bag Upper Hutt - New Zealand	g 908
	Telephone	:	0800 800 543	
	Emergency telephone number	:	0800 764 766 (0800 POISON) CHEMCALL)	0800 243 622 (0800
	E-mail address	:	EHSDATASTEWARD@msd.com	n
	Recommended use of the ch	em	ical and restrictions on use	
	Recommended use			
	Restrictions on use	:	Not applicable	
Sec	tion 2: Hazard identification			
	GHS Classification			
	Acute toxicity (Oral)	:	Category 4	
	Serious eye damage/eye irri- tation	:	Category 2	
	Reproductive toxicity	:	Category 2	
	Specific target organ toxicity -	:	Category 2 (Heart, Lungs)	
	repeated exposure (Oral)			
	Hazardous to the aquatic environment - acute hazard	:	Category 1	
	Hazardous to the aquatic environment - chronic hazard	:	Category 1	
	GHS label elements			
	Hazard pictograms	:		
				73
	Signal word	:	Warning	

SDS Number:

9456718-00013



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Haza	rd statements	H361 Suspector H373 May cau prolonged or re	if swallowed. serious eye irritation. 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	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P273 Avoid rel	reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. lease to the environment. btective gloves/ protective clothing/ eye protec-
		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.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
	r hazards which do n e known.	ot result in classifica	tion

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Tilmicosin	137330-13-3	>= 30 -< 50
Propylene glycol	57-55-6	>= 20 -< 30
Phosphoric acid	7664-38-2	>= 1 -< 3



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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 soap and plenty of water. Remove 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	 Harmful if swallowed. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed.
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).
Notes to physician	: Treat symptomatically and supportively.

Section 5: Fire-fighting measures

Suitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known.
media	•	
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.



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	for firefi	protective equipment ighters em Code	:	In the event of fire Use personal prot 3Z	e, wear self-contained breathing apparatus. ective equipment.		
Sect	ion 6: A	Accidental release me	eas	ures			
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).		
	Environmental precautions Methods and materials for containment and cleaning up		:	 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 barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate contained 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. Sections 13 and 15 of this SDS provide information regardin certain local or national requirements. 			
			:				
Sect	ion 7: H	Handling and storage					
	Local/T	cal measures otal ventilation on safe handling	:	CONTROLS/PER Use only with ade Do not breathe mi Do not swallow. Do not get in eyes Avoid prolonged of Wash skin thoroug Handle in accorda	st or vapours.		

When using do not eat, drink or smoke.

Do not eat, drink or smoke when using this product.

Take care to prevent spills, waste and minimize release to the

If exposure to chemical is likely during typical use, provide eye

flushing systems and safety showers close to the working

sessment

place.

:

Hygiene measures

environment.



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	litions for safe storage rials to avoid	The effective engineering c appropriate d industrial hyg use of admini : Keep in prope Store locked Store in accord	ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls. erly labelled containers. up. rdance with the particular national regulations. with the following product types:
	-	Strong oxidizi	

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Tilmicosin	137330-13-3	TWA	0.2 mg/m3 (OEB 2)	Internal
Propylene glycol	57-55-6	WES-TWA (particulate)	10 mg/m3	NZ OEL
		WES-TWA (Vapour and particulates)	150 ppm 474 mg/m3	NZ OEL
Phosphoric acid	7664-38-2	WES-TWA	1 mg/m3	NZ OEL
		TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	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 Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates, acidic and inorganic gas/vapour 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



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Skin	and body protection	:	aerosols. Work uniform or I	aboratory coat.
Section 9	: Physical and chemica	ıl pr	operties	
Арре	arance	:	liquid	
Colou	ır	:	dark yellow	
Odou	ır	:	No data availabl	e
Odou	ır Threshold	:	No data availabl	e
pН		:	3.5 - 6.5	
Melti	ng point/freezing point	:	No data availabl	e
Initial range	boiling point and boiling	:	No data availabl	9
Flash	n point	:	No data availabl	e
Evap	oration rate	:	No data availabl	e
Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	No data availabl	9
	er explosion limit / Upper nability limit	:	No data availabl	9
	er explosion limit / Lower nability limit	:	No data availabl	9
Vapo	ur pressure	:	No data availabl	e
Relat	ive vapour density	:	No data availabl	e
Relat	ive density	:	No data availabl	e
Dens	ity	:	1.00 - 1.200 g/cr	n ³
	bility(ies) /ater solubility	:	No data availabl	e
	ion coefficient: n-	:	No data availabl	e
	ol/water ignition temperature	:	No data availabl	e
Deco	mposition temperature	:	No data availabl	e
Visco Vi	osity scosity, kinematic	:	No data availabl	e



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Explo	sive properties	:	Not explosive				
Oxidiz	ring properties	:	The substance o	r mixture is not classified as oxidizing.			
Molec	ular weight	:	No data available)			
	le characteristics le size	:	Not applicable				
ection 10): Stability and reactivi	ty					
Possil	ivity ical stability pility of hazardous reac-	:	Stable under nor	a reactivity hazard. mal conditions. rong oxidizing agents.			
tions Conditions to avoid Incompatible materials Hazardous decomposition products			None known. Oxidizing agents No hazardous decomposition products are known.				
		:	No nazardous de	composition products are known.			
produ				composition products are known.			
produce ection 11	cts			composition products are known.			
produ ection 11 Expos Acute	cts I: Toxicological inform		on Inhalation Skin contact Ingestion	composition products are known.			
produ ection 11 Expos Acute Harmf <u>Produ</u>	cts I: Toxicological inform sure routes e toxicity ful if swallowed.	atic :	Inhalation Skin contact Ingestion Eye contact	mate: 1,467 mg/kg			
produ ection 11 Expos Acute Harmf <u>Produ</u> Acute	cts I: Toxicological inform sure routes e toxicity ful if swallowed. <u>uct:</u>	atic :	Inhalation Skin contact Ingestion Eye contact Acute toxicity esti	mate: 1,467 mg/kg			
ection 11 Expos Acute Harmf <u>Produ</u> Acute Tilmic	cts I: Toxicological inform sure routes toxicity ful if swallowed. <u>Ict:</u> oral toxicity <u>conents:</u> cosin:	atic :	Inhalation Skin contact Ingestion Eye contact Acute toxicity esti	mate: 1,467 mg/kg			
ection 11 Expos Acute Harmf <u>Produ</u> Acute Tilmic	cts I: Toxicological inform sure routes toxicity ful if swallowed. <u>uct:</u> oral toxicity <u>ponents:</u>	atic :	Inhalation Skin contact Ingestion Eye contact Acute toxicity esti	mate: 1,467 mg/kg on method			
produ ection 11 Expos Acute Harmf <u>Produ</u> Acute Tilmic Acute	cts I: Toxicological inform sure routes toxicity ful if swallowed. <u>Ict:</u> oral toxicity <u>conents:</u> cosin:	atic :	Inhalation Skin contact Ingestion Eye contact Acute toxicity esti Method: Calculati	mate: 1,467 mg/kg on method 850 mg/kg			
produ- ection 11 Expos Acute Harmf <u>Produ</u> Acute Comp Tilmic Acute Acute	cts I: Toxicological inform sure routes toxicity ful if swallowed. <u>ict:</u> oral toxicity onents: cosin: oral toxicity	atic : :	Inhalation Skin contact Ingestion Eye contact Acute toxicity esti Method: Calculati	mate: 1,467 mg/kg on method 850 mg/kg 5,000 mg/kg 7 mg/kg			



rsion 0	Revision Date: 06.07.2024		9S Number: 56718-00013	Date of last issue: 23.04.2024 Date of first issue: 08.09.2021
Acute	e oral toxicity	:	LD50 (Rat): 22,	000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4 Exposure time: Test atmospher	4 h
Acute	e dermal toxicity	:	LD50 (Rabbit): : Assessment: Th toxicity	> 2,000 mg/kg e substance or mixture has no acute derion
Phos	phoric acid:			
	e oral toxicity	:	LD50 (Rat): 2,0 Method: OECD	00 mg/kg Test Guideline 423
Acute	inhalation toxicity	:	Assessment: Co	prrosive to the respiratory tract.
	corrosion/irritation lassified based on ava	ilable	information.	
<u>Com</u>	ponents:			
Tilmi	cosin:			
Speci Resu		:	Rabbit No skin irritatior	
Prop	ylene glycol:			
Speci	ies	:	Rabbit	
Metho Resu		:	OECD Test Gui No skin irritatior	
Phos	phoric acid:			
Resu Rema		:		3 minutes to 1 hour of exposure al or regional regulation.
Serio	ous eye damage/eye i	rritati	on	
Caus	es serious eye irritatio	n.		
Com	ponents:			
00111				
	cosin:			
	ies	:	Rabbit Mild eye irritatio	n
Tilmi Speci Resu	ies	:		n
Tilmi Speci Resu	ies It ylene glycol: ies	:		



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Pho s Spec Resu		: Rabbit : Irreversible e	effects on the eye
Res	piratory or skin sensi	tisation	
•	sensitisation	ailable information.	
	piratory sensitisation		
Com	ponents:		
Test		: Intracutanec : Dermal : Guinea pig : Not a skin se	
Test		: Maximisation : Skin contact : Guinea pig : negative	
Chro	onic toxicity		
Not	n cell mutagenicity classified based on ava ponents:	ailable information.	
Tilm	icosin:		
Gen	otoxicity in vitro	Result: nega Test Type: N	louse Lymphoma
			inscheduled DNA synthesis assay : Chinese hamster ovary cells
Gen	otoxicity in vivo	: Test Type: s Species: Ha Result: nega	
		Test Type: 0 Species: Ra Result: nega	



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Propy	/lene glycol:		
Geno	toxicity in vitro	: Test Type: E Result: nega	acterial reverse mutation assay (AMES) tive
			Chromosome aberration test in vitro CD Test Guideline 473 tive
Genotoxicity in vivo		cytogenetic a Species: Mo	use Route: Intraperitoneal injection
Phos	phoric acid:		
Genotoxicity in vitro			n vitro mammalian cell gene mutation test CD Test Guideline 476 tive
			acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
			Chromosome aberration test in vitro CD Test Guideline 473 tive
Carci	nogenicity		
Not cl	assified based on av	ailable information.	
Com	oonents:		
Prop	/lene glycol:		
Speci	•••	: Rat	
Applic	ation Route	: Ingestion	
Expos Resul	sure time t	: 2 Years : negative	
Repro	oductive toxicity		
-	-	rtility or the unborn c	hild.
<u>Comp</u>	oonents:		
Tilmi	cosin:		
Effect	s on fertility	: Test Type: F Species: Ra	



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	Effects on foetal develop- ment			
			Result: Materr	, it
	productive toxicity - As- ssment	:	May damage t	he unborn child.
	Propylene glycol: Effects on fertility		Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Result: negative	
	Effects on foetal develop- ment		Test Type: Em Species: Mous Application Ro Result: negativ	oute: Ingestion
Ph	osphoric acid:			
Eff	ects on fertility	:	reproduction/d Species: Rat Application Ro	D Test Guideline 422
Eff me	ects on foetal develop- nt	:	reproduction/d Species: Rat Application Rc	D Test Guideline 422

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Heart, Lungs) through prolonged or repeated exposure if swallowed.



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Tilmi Expos Targe	<mark>cosin:</mark> cosin: sure routes et Organs ssment	: Oral : Heart, Lungs : May cause damag exposure.	ge to organs through prolonged or repeated
Repe	ated dose toxicity	·	
Com	oonents:		
Tilmi	cosin:		
Expos	ΞL	: Rat : 50 mg/kg : 250 mg/kg : Oral : 3 Months : Kidney, Liver, Hea gland	art, spleen, Gastrointestinal tract, Adrenal
Symp	otoms	5	ced food consumption
Expos	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
Expos		: Dog : 47 mg/m3 : Inhalation : 16 d : Lungs	
Prop	ylene glycol:		
Speci NOAE Applic	es	: Rat, male : >= 1,700 mg/kg : Ingestion : 2 yr	
Phos	phoric acid:		
Speci NOAE Applic	ies EL cation Route sure time	: Rat : 250 mg/kg : Ingestion : 40 - 52 Days : OECD Test Guide	eline 422



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Not cl	ration toxicity lassified based on availa rience with human exp			
Comp	oonents:			
Tilmi	cosin:			
Inhala	ation	:		astrointestinal tract
Skin d	contact	:	Symptoms: Nause Target Organs: S Symptoms: tinglir	kin
Eye c	ontact	:	Target Organs: E	
Inges	tion	:	Target Organs: C	entral nervous system ty, Headache, Light-headedness, Thirst
Section 12	2: Ecological information	on		
Ecoto	oxicity			
<u>Comp</u>	oonents:			
	cosin:			
Toxic	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD T	
			LC50 (Lepomis m Exposure time: 96 Method: OECD T	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxic plants	ity to algae/aquatic	:	EC50 (Selenastru Exposure time: 72 Method: OECD T	
			EC10 (Anabaena Exposure time: 72 Method: OECD T	
	ctor (Acute aquatic tox-	:	1	
icity) M-Fa toxicit	ctor (Chronic aquatic	:	10	
	ylene glycol:			
	ity to fish	:	LC50 (Oncorhync Exposure time: 96	chus mykiss (rainbow trout)): 40,613 mg/l 5 h



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	y to daphnia and other c invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 18,340 mg/l 3 h	
Toxicit plants	y to algae/aquatic	:	ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg Exposure time: 72 h Method: OECD Test Guideline 201		
	y to daphnia and other c invertebrates (Chron-	:	NOEC (Ceriodaph Exposure time: 7	nnia dubia (water flea)): 13,020 mg/l d	
	y to microorganisms	:	NOEC (Pseudome Exposure time: 18	onas putida): > 20,000 mg/l 3 h	
Phosp	ohoric acid:				
Toxicit	y to fish	:	LC50 (Oryzias lati Exposure time: 96 Method: OECD Te		
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Toxicit plants	y to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te		
			NOEC (Desmode Exposure time: 72 Method: OECD Te		
Toxicit	Toxicity to microorganisms		EC50: > 100 mg/l Exposure time: 3 Method: OECD To Remarks: Based o	h	
Persis	stence and degradabili	ty			
<u>Comp</u>	onents:				
•••	lene glycol: gradability	:	Result: Readily bi Biodegradation: S Exposure time: 28 Method: OECD Te	98.3 %	
Bioac	cumulative potential				
<u>Comp</u>	onents:				
Tilmic Bioacc	osin: cumulation	:	Species: Lepomis	macrochirus (Bluegill sunfish)	



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			on factor (BCF): 450 Test Guideline 305
	ion coefficient: n- ol/water	: log Pow: 3.8	
Partit	ylene glycol: ion coefficient: n- ol/water	: log Pow: -1.07 Method: Regula	ation (EC) No. 440/2008, Annex, A.8
	lity in soil ata available		
	r adverse effects 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 han- dling 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
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tilmicosin)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Tilmicosin)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes



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IMDG-	Code			
UN nu	mber	:	UN 3082	
Proper	Proper shipping name		ENVIRONMENTA N.O.S. (Tilmicosin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class		:	9	
	g group	:		
Labels EmS C		:	9 F-A, S-F	
	e pollutant	÷	Ves	
	•	a to	Annex II of MARP	OL 73/78 and the IBC Code
-	plicable for product as	-		
Nation	al Regulations			
NZS 5	433			
UN nu		:	UN 3082	
Proper	shipping name	:	ENVIRONMENTA N.O.S. (Tilmicosin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class		:	9	
	g group	:		
Labels		:	9	

Special precautions for user

Hazchem Code

Marine pollutant

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.

: 3Z

: no

Section 15: Regulatory information

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

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

The components of this product are reported in the following inventories:



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AICS		:	not determined			
DSL		:	not determined			
IECS	IECSC		not determined			
Section 16: Other information						
Revis	Revision Date		06.07.2024			
Furth	er information					
comp	Sources of key data used to compile the Safety Data Sheet		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- 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.					
Date	format	:	dd.mm.yyyy			
Full t	Full text of other abbreviations					
ACGI NZ O		:		eshold Limit Values (TLV) orkplace Exposure Standards for Atmospher-		
ACGI	H / TWA H / STEL EL / WES-TWA	:	8-hour, time-weig Short-term expos Workplace Expos			
Land Carci Stanc x% re ENCS x% g tem; 0	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 Sys- tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and					

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 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



Tilmicosin Formulation

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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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