



Version 5.1	Revision Date: 2023/09/30		S Number: 244-00025	Date of last issue: 2023/04/04 Date of first issue: 2014/10/24	
1. PRODU	CT AND COMPANY IDE	ENT	IFICATION		
Produ	ict name	:	Tildipirosin (18%	6) Formulation	
Manu	facturer or supplier's d	etai	ls		
Comp	pany	:	MSD		
Addre	ess	:	126 E. Lincoln A Rahway, New J	Avenue ersey U.S.A. 07065	
Telep	hone	:	908-740-4000		
Emer	gency telephone number	:	1-908-423-6000		
E-mai	il address	:	EHSDATASTEV	VARD@msd.com	
Reco	mmended use of the ch	nem	ical and restricti	ions on use	
	mmended use ictions on use	:	Veterinary produ Not applicable	uct	

#### 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2 (Heart, Cardio-vascular system, Nervous system, eye - retina, Thyroid, thymus gland, spleen, Pancreas)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction. H361f Suspected of damaging fertility. H373 May cause damage to organs (Heart, Cardio-vascular



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		spleen, Pancr	ous system, eye - retina, Thyroid, thymus gland, eas) through prolonged or repeated exposure. ric to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not h and understoo P260 Do not h P272 Contam the workplace P273 Avoid re	preathe mist or vapours. inated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protec-
		P308 + P313 attention. P333 + P313 vice/ attention	Take off contaminated clothing and wash it before
		<b>Storage:</b> P405 Store lo	cked up.
		Disposal:	of contents/ container to an approved waste
Othe	r hazards which do n		

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance /	Mixture	:	Mixture

Components
------------

Chemical name	CAS-No.	Concentration (% w/w)
Tildipirosin	328898-40-4	>= 10 -< 25
Citric acid monohydrate	5949-29-1	< 10

#### 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.



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lf inhal	led		nhaled, remove et medical atten		
In case	e of skin contact	: In of Re Ge Wa	case of contact water. emove contamir et medical atten ash clothing bei	, immediately flush skin with soap and plenty nated clothing and shoes. tion.	
In case	e of eye contact	: Flu	ush eyes with w	ater as a precaution.	
lf swal	lowed	: Ifs Ge	swallowed, DO et medical atten	tion if irritation develops and persists. NOT induce vomiting. tion. oughly with water.	
	mportant symptoms fects, both acute and d	: Ma Su Ma	ay cause an alle spected of dam	ergic skin reaction.	
	tion of first-aiders to physician	: Fir an wh	st Aid responde d use the recor an the potentia	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8). cally and supportively.	
Suitab	le extinguishing media	Alo Ca	ater spray cohol-resistant f arbon dioxide (C y chemical		
Unsuit media	able extinguishing	: No	one known.		
	ic hazards during fire-	: Ex	posure to comb	oustion products may be a hazard to health.	
•••	dous combustion prod-	: Ca	arbon oxides		
Specif ods	ic extinguishing meth-	cu Us Re so	mstances and t se water spray t emove undamag	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	al protective equipment fighters	: In	the event of fire	e, wear self-contained breathing apparatus. ective equipment.	

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-
gency procedures	tective 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



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	ethods and materials for ontainment and cleaning up	<ul> <li>Local author cannot be connot be pumped connot be pumped connot bent.</li> <li>Local or nation posal of this employed in mine which Sections 13</li> </ul>	dispose of contaminated wash water. rities should be advised if significant spillages contained. th inert absorbent material. bills, provide dyking or other appropriate contain- ep material from spreading. If dyked material can , store recovered material in appropriate container. maining materials from spill with suitable absor- tional regulations may apply to releases and dis- s material, as well as those materials and items in the cleanup of releases. You will need to deter- regulations are applicable. and 15 of this SDS provide information regarding I or national requirements.
7. HAN	NDLING AND STORAGE		
Τe	echnical measures	: See Engine	ering measures under EXPOSURE S/PERSONAL PROTECTION section.
	ocal/Total ventilation dvice on safe handling	<ul> <li>Use only wi</li> <li>Do not get on Do not breat</li> <li>Do not swa</li> <li>Avoid conta</li> <li>Handle in a</li> <li>practice, bas</li> <li>sessment</li> </ul>	th adequate ventilation. on skin or clothing. the mist or vapours. llow. act with eyes. ccordance with good industrial hygiene and safety sed on the results of the workplace exposure as- o prevent spills, waste and minimize release to the
C	onditions for safe storage	: Keep in pro Store locke	perly labelled containers. d up.
М	aterials to avoid	: Do not store	cordance with the particular national regulations. e with the following product types: izing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters						
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Tildipirosin	328898-40-4	TWA	100 µg/m3 (OEB 2)	Internal		
	Further inform	Further information: DSEN				
		100 µg/100 cm <sup>2</sup>	Internal			





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Eng	Engineering measures		: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.				
Per	sonal protective equip	ment					
	spiratory protection		If adequate local	exhaust ventilation is not available or expo-			
			sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.				
	Filter type nd protection	:	Particulates type				
	Material	:	Chemical-resistar	nt gloves			
	Remarks	on the concentration and quantity of stance and specific to place of work. determined for the product. Change of applications, we recommend clarifyin chemicals of the aforementioned pro-		protect hands against chemicals depending ion and quantity of the hazardous sub- ic to place of work. Breakthrough time is not e product. Change gloves often! For special ecommend clarifying the resistance to aforementioned protective gloves with the er. Wash hands before breaks and at the			
Eye	e protection		Wear the following personal protective equipment: Safety glasses				
Ski	n and body protection		<ul> <li>Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.</li> <li>Skin contact must be avoided by using impervious protect clothing (gloves, aprons, boots, etc).</li> </ul>				
Ηγς	jiene measures	:	If exposure to che eye flushing syste ing place. When using do no Contaminated wo workplace.	emical is likely during typical use, provide ems and safety showers close to the work- ot eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use.			
9. PHYS	SICAL AND CHEMICAL	PROP	ERTIES				
App	bearance	:	liquid				

# Appearance:liquidColour:No data availableOdour:No data availableOdour Threshold:No data availablepH:No data available

- Melting point/freezing point : No data available
- Initial boiling point and boiling : No data available



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I	range				
	Flash p	oint	:	No data available	9
I	Evapora	ation rate	:	No data available	9
I	Flamma	ability (solid, gas)	:	Not applicable	
I	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
Ņ	Vapour	pressure	:	No data available	9
I	Relative	e vapour density	:	No data available	9
I	Relative	e density	:	No data available	9
:	Solubilit Wate	ty(ies) er solubility	:	soluble	
	Partitior	n coefficient: n-	:	No data available	9
		nition temperature	:	No data available	9
I	Decomp	position temperature	:	No data available	9
,	Viscosit Visc	y osity, dynamic	:	No data available	
	Visc	osity, kinematic	:	No data available	)
I	Explosiv	ve properties	:	Not explosive	
(	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
I	Molecul	ar weight	:	No data available	9
I	Particle	size	:	No data available	9

#### 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		





ersion 1	Revision Date: 2023/09/30		S Number: 244-00025	Date of last issue: 2023/04/04 Date of first issue: 2014/10/24
Incom	tions to avoid patible materials dous decomposition cts	:	None known. Oxidizing agent No hazardous c	s decomposition products are known.
. TOXIC	OLOGICAL INFORMAT	101	N	
Inform expos	ation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact	
	toxicity assified based on availa	ble	information.	
<u>Comp</u>	onents:			
-	irosin: oral toxicity	:	LD50 (Rat): > 2,	000 mg/kg
			LD50 (Mouse): >	> 2,000 mg/kg
Acute	dermal toxicity	:	Remarks: No da	ta available
	toxicity (other routes of istration)	:	LD50 (Mouse): 6 Application Rout	6.25 - 12.5 mg/kg te: Intravenous
	acid monohydrate:			- 400 malka
	oral toxicity dermal toxicity	:		
	corrosion/irritation	ble	information.	
	onents:	-		
<b>Tildip</b> i Specie Result		:	Rabbit No skin irritation	
<b>Citric</b> Specie	acid monohydrate:		Rabbit	

Species	:	Rabbit
Result	:	No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.



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Com	ponents:			
Tildig	pirosin:			
Speci		:	Rabbit	
Resu	lt	:	No eye irritation	
Citric	acid monohydrate:			
Speci		:	Rabbit	
Resu	lt	:	Irritation to eyes,	reversing within 21 days
Resp	iratory or skin sensit	tisatio	on	
-	sensitisation			
May o	cause an allergic skin i	reaction	on.	
-	<b>iratory sensitisation</b> lassified based on ava	ilable	information.	
Com	ponents:			
Tildir	pirosin:			
Test		:	Maximisation Tes	t
Expo	sure routes	:	Dermal	
Speci Resu		:	Guinea pig Sensitiser	
Germ	n cell mutagenicity			
	lassified based on ava	ilable	information.	
<u>Com</u>	ponents:			
Tildip	pirosin:			
Geno	toxicity in vitro	:		rial reverse mutation assay (AMES) on: with and without metabolic activation
			Test Type: Chron	nosomal aberration
			Test system: Hur	nan lymphocytes
			Metabolic activati Result: negative	on: with and without metabolic activation
			Test Type: In vitre	o mammalian cell gene mutation test
			Test system: mou	use lymphoma cells on: with and without metabolic activation
Geno	toxicity in vivo	:	Test Type: Micro	nucleus test
			Species: Mouse	
			Application Route Result: negative	e: Ural
			nogativo	



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Citric	acid monohydrate:			
Geno	toxicity in vitro		Type: Bao ult: negativ	cterial reverse mutation assay (AMES) /e
			Type: in v ult: positive	vitro micronucleus test e
			Type: Bao ult: negativ	cterial reverse mutation assay (AMES) /e
Geno	toxicity in vivo	cyto Spec Appl	genetic tes cies: Rat	tagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) pute: Ingestion /e
	i <b>nogenicity</b> lassified based on ava	ilable inform	nation.	
-	oductive toxicity ected of damaging fer	ility.		
Com	ponents:			
Tildip	pirosin:			
Effec	ts on fertility	Spec Appl Gen Sym	cies: Rat ication Ro eral Toxici ptoms: Eff	o-generation reproduction toxicity study oute: Oral ity F1: LOAEL: 80 mg/kg body weight fects on F1 offspring on reproduction parameters
Effec ment	ts on foetal develop-	Spec Emb Sym Resi	cies: Rabb ryo-foetal ptoms: Re ult: No tera	abryo-foetal development bit, females toxicity: NOAEL: 30 mg/kg body weight educed body weight atogenic potential effects were seen only at maternally toxic dos-
		Spec Emb Sym Resi	cies: Rat, f pryo-foetal ptoms: Re ult: No tera	abryo-foetal development female toxicity: NOAEL: 30 mg/kg body weight educed body weight atogenic potential effects were seen only at maternally toxic dos-
Repro sessr	oductive toxicity - As- nent			e of adverse effects on sexual function and on animal experiments.

Citric acid monohydrate:



sion	Revision Date: 2023/09/30	SDS Number: 25244-00025	Date of last issue: 2023/04/04 Date of first issue: 2014/10/24
Effect ment	s on foetal develop-	Species: Ra	Route: Ingestion
	- single exposure assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
	acid monohydrate:	: May cause	respiratory irritation.
roid, t <u>Comp</u>	hymus gland, spleen, ponents:		vascular system, Nervous system, eye - retina, Th prolonged or repeated exposure.
-	irosin:		
-	t Organs ssment	Thyroid, thy	mus gland, spleen, Pancreas
Asses	-	Thyroid, thy : May cause	mus gland, spleen, Pancreas
Asses Repe	ssment	Thyroid, thy : May cause	mus gland, spleen, Pancreas
Asses Repe <u>Comp</u> Tildip	ated dose toxicity ponents: irosin:	Thyroid, thy : May cause exposure.	lio-vascular system, Nervous system, eye - retina, /mus gland, spleen, Pancreas damage to organs through prolonged or repeated
Asses Repe Comp Tildip Speci	ated dose toxicity ponents: irosin: es	Thyroid, thy : May cause exposure. : Rat	mus gland, spleen, Pancreas
Asses Repe Comp Tildip Speci NOAE	ated dose toxicity ponents: ponents: es EL	Thyroid, thy : May cause exposure. : Rat : 20 mg/kg	mus gland, spleen, Pancreas
Asses Repea Comp Tildip Speci NOAE LOAE Applic	ated dose toxicity ponents: irosin: es EL iL cation Route	Thyroid, thy May cause exposure. Rat 20 mg/kg 60 mg/kg Cral	mus gland, spleen, Pancreas
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos	ated dose toxicity ponents: ponents: pirosin: es EL EL cation Route sure time	Thyroid, thy May cause exposure. Rat 20 mg/kg 60 mg/kg Oral 90 d	mus gland, spleen, Pancreas damage to organs through prolonged or repeated
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos	ated dose toxicity ponents: irosin: es EL EL cation Route sure time t Organs	Thyroid, thy May cause exposure. Rat 20 mg/kg 60 mg/kg Cral	mus gland, spleen, Pancreas damage to organs through prolonged or repeated
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos Targe Symp Speci	ated dose toxicity ponents: ponents: prosin: es EL EL cation Route sure time t Organs toms es	Thyroid, thy May cause exposure. Rat 20 mg/kg 60 mg/kg 0ral 90 d spleen, thyr Salivation Dog	mus gland, spleen, Pancreas damage to organs through prolonged or repeated
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE	ated dose toxicity ponents: irosin: es EL EL cation Route sure time t Organs toms es	Thyroid, thy May cause exposure. Rat 20 mg/kg 60 mg/kg Oral 90 d spleen, thyr Salivation Dog 20 mg/kg	mus gland, spleen, Pancreas damage to organs through prolonged or repeated
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic	ated dose toxicity ponents: ponents: pirosin: es EL EL cation Route sure time t Organs toms es EL cation Route	Thyroid, thy May cause exposure.	mus gland, spleen, Pancreas damage to organs through prolonged or repeated
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos	ated dose toxicity ponents: ponents: pirosin: es EL EL cation Route sure time t Organs toms es EL cation Route sure time	Thyroid, thy May cause exposure.	mus gland, spleen, Pancreas damage to organs through prolonged or repeated mus gland
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos	ated dose toxicity ponents: virosin: es EL EL Exation Route sure time t Organs toms es EL cation Route sure time t Organs toms	Thyroid, thy May cause exposure.	mus gland, spleen, Pancreas damage to organs through prolonged or repeated
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Symp	ated dose toxicity ponents: irosin: es EL EL cation Route sure time t Organs toms es EL cation Route sure time t Organs toms es cure time t Organs toms es cure time t Organs toms es	Thyroid, thy May cause exposure.	mus gland, spleen, Pancreas damage to organs through prolonged or repeated mus gland
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Symp Speci NOAE	ated dose toxicity ponents: irosin: es EL EL cation Route sure time t Organs toms es EL cation Route sure time t Organs toms es EL cation Route sure time t Organs toms	Thyroid, thy May cause exposure. Rat 20 mg/kg 60 mg/kg Oral 90 d spleen, thyr Salivation Dog 20 mg/kg Oral 28 d Heart, Cent Tremors Dog 20 g 6 mg/kg	mus gland, spleen, Pancreas damage to organs through prolonged or repeated mus gland
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Symp	ated dose toxicity ponents: irosin: es EL EL cation Route sure time t Organs toms es EL cation Route sure time t Organs toms es EL cation Route sure time t Organs toms	Thyroid, thy May cause exposure. Rat 20 mg/kg 60 mg/kg Oral 90 d spleen, thyr Salivation Dog 20 mg/kg Oral 28 d Heart, Cent Tremors Dog 06 mg/kg Oral 28 d Heart, Cent	mus gland, spleen, Pancreas damage to organs through prolonged or repeated mus gland
Asses Repea Comp Tildip Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Symp Speci NOAE Applic Expos Targe	ated dose toxicity ponents: irosin: es EL EL cation Route sure time t Organs toms es EL cation Route sure time t Organs toms es EL cation Route sure time t Organs toms	Thyroid, thy May cause exposure. Rat 20 mg/kg 60 mg/kg Oral 90 d spleen, thyr Salivation Dog 20 mg/kg Oral 28 d Heart, Cent Tremors Dog 6 mg/kg Oral 28 d Heart, Cent Tremors	mus gland, spleen, Pancreas damage to organs through prolonged or repeated mus gland



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Expo	EL		Dog 10 mg/kg 50 mg/kg Oral 55 Weeks Nervous system, gland, Pancreas	eye - retina, Heart, Thyroid, spleen, thymus
Spec NOA LOAE Appli	EL	:	Rat 4,000 mg/kg 8,000 mg/kg Ingestion 10 Days	
Not c Expe	ration toxicity lassified based on availa rience with human exp ponents:			
	<b>pirosin:</b> eral Information	:	No human inform	ation is available.
2. ECOL	OGICAL INFORMATIO	N		
Ecot	oxicity			
Com	ponents:			
Tildi	ponents: pirosin: sity to fish	:	Exposure time: 9	
<b>Tildij</b> Toxic	pirosin:		Exposure time: 9 Method: OECD T EC50 (Daphnia n Exposure time: 4	est Guideline 203 nagna (Water flea)): 32 mg/l





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			Exposure time: 7 Method: OECD T	a flos-aquae (cyanobacterium)): 0.027 mg/l 2 h <sup>-</sup> est Guideline 201 a flos-aquae (cyanobacterium)): 0.00011
			Exposure time: 7	2 h Test Guideline 201
M-Fa icity)	ctor (Acute aquatic tox-	:	10	
M-Fa	ctor (Chronic aquatic	:	100	
	toxicity) Toxicity to microorganisms		EC50: 112.4 mg/ Exposure time: 3 Test Type: Respi Method: OECD T	h
			NOEC: 0.23 mg/l Exposure time: 3 Test Type: Respi Method: OECD T	h
Citric	acid monohydrate:			
	ity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): > 100 mg/l 6 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 2	nagna (Water flea)): 1,535 mg/l 4 h
Persi	stence and degradabil	ity		
<u>Com</u>	oonents:			
Tildip	pirosin:			
Biode	gradability	:	Biodegradation: Exposure time: 2	
Citric	acid monohydrate:			
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	97 %



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	ccumulative potential <u>ponents:</u>		
<b>Citric</b> Partiti	acid monohydrate: ion coefficient: n- ol/water	: log Pow: -1.72	
Mobil	lity in soil ata available		
	r adverse effects ata available		
13. DISPO	SAL CONSIDERATION	IS	
-	osal methods e from residues		of waste into sewer.
Conta	aminated packaging	: Empty containe	cordance with local regulations. rs should be taken to an approved waste han- ycling or disposal.
			specified: Dispose of as unused product.
14. TRAN	SPORT INFORMATION	If not otherwise	
	SPORT INFORMATION	If not otherwise	
Interr UNRT UN nu	national Regulations	If not otherwise : UN 3082 : ENVIRONMEN N.O.S.	
Interr UNR UN nu Prope	national Regulations TDG umber er shipping name	If not otherwise : UN 3082 : ENVIRONMEN N.O.S. (Tildipirosin)	specified: Dispose of as unused product.
Interr UNRT UN nu Prope Class	national Regulations TDG umber er shipping name	If not otherwise : UN 3082 : ENVIRONMEN N.O.S.	specified: Dispose of as unused product.
Interr UNRT UN nu Prope Class Packi Label	national Regulations TDG umber er shipping name ng group	If not otherwise : UN 3082 : ENVIRONMEN N.O.S. (Tildipirosin) : 9	specified: Dispose of as unused product.
Intern UNRT UN nu Prope Class Packi Label Enviro	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR	If not otherwise UN 3082 ENVIRONMEN N.O.S. (Tildipirosin) 9 III 9 yes	specified: Dispose of as unused product.
Intern UNRT UN nu Prope Class Packi Label Enviro IATA- UN/ID	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR	If not otherwise : UN 3082 : ENVIRONMENT N.O.S. (Tildipirosin) : 9 : III : 9 : yes : UN 3082 : Environmentally	specified: Dispose of as unused product.
Interr UNRT UN nu Prope Class Packi Label Enviro IATA- UN/ID	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR D No. er shipping name	If not otherwise UN 3082 ENVIRONMENT N.O.S. (Tildipirosin) 9 III 9 UN 3082 UN 3082	Specified: Dispose of as unused product.
Interr UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi	national Regulations TDG umber er shipping name ing group s onmentally hazardous -DGR O No. er shipping name ing group	If not otherwise UN 3082 ENVIRONMENT N.O.S. (Tildipirosin) 9 III 9 UN 3082 Environmentally (Tildipirosin) 9 UN 3082 Environmentally (Tildipirosin) 9 UN 3082 UN 3082 Environmentally (Tildipirosin) 19 UN 3082 Environmentally (Tildipirosin) 19 10 10 10 10 10 10 10 10 10 10	Specified: Dispose of as unused product.
Intern UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi Label	national Regulations TDG umber er shipping name ing group s onmentally hazardous -DGR D No. er shipping name ing group s	If not otherwise UN 3082 ENVIRONMENT N.O.S. (Tildipirosin) 9 III 9 UN 3082 Environmentally (Tildipirosin) 9 III Miscellaneous	Specified: Dispose of as unused product.
Intern UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi Label Packi aircra	national Regulations TDG umber er shipping name ing group s onmentally hazardous -DGR D No. er shipping name ing group s ng group s ng instruction (cargo ft)	If not otherwise UN 3082 ENVIRONMENT N.O.S. (Tildipirosin) 9 UN 3082 Environmentally (Tildipirosin) 9 UN 3082 Environmentally (Tildipirosin) 9 UI Miscellaneous 964	Specified: Dispose of as unused product.
Interr UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi Label Packi aircra Packi ger ai	national Regulations TDG umber er shipping name ing group s conmentally hazardous -DGR D No. er shipping name ing group s ng group s ng group s ng group s	If not otherwise UN 3082 ENVIRONMENT N.O.S. (Tildipirosin) 9 III 9 UN 3082 Environmentally (Tildipirosin) 9 III Miscellaneous	Specified: Dispose of as unused product.
Intern UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro	national Regulations TDG umber er shipping name ang group s onmentally hazardous -DGR O No. er shipping name ang group s ng instruction (cargo ft) ng instruction (passen- ircraft) onmentally hazardous	If not otherwise UN 3082 ENVIRONMENT N.O.S. (Tildipirosin) 9 UN 3082 UN 3082 Environmentally (Tildipirosin) 9 UII Miscellaneous 964 964	Specified: Dispose of as unused product.
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		N.O.S.	

		(Tildipirosin)
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

#### 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.

#### **15. REGULATORY INFORMATION**

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

# Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

#### Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

# Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

AICS	:	not determined



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DSL		:	not determined		
IECSC		:	not determined		
16. OTHER INFORMATION					
Revision Date		:	2023/09/30		
<b>Further information</b> 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/		
Date	Date format		yyyy/mm/dd		

Full text of other abbreviations

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





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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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