according to the Globally Harmonized System



# Tildipirosin (18%) Formulation

Version 4.9	Revision Date: 30.09.2023		S Number: 247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014			
1. PRODUCT AND COMPANY IDENTIFICATION							
Produ	uct name	:	Tildipirosin (1	8%) Formulation			
Manufacturer or supplier's details							
Company :		:	MSD				

Company	:	MSD					
Address	:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207					
Telephone	:	+1-908-740-4000					
Emergency telephone	e number :	+1-908-423-6000					
E-mail address	:	EHSDATASTEWARD@msd.com					
Recommended use of the chemical and restrictions on use							
Recommended use	:	Veterinary product					

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

## 2. HAZARDS IDENTIFICATION

## Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

## Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

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

according to the Globally Harmonized System



# Tildipirosin (18%) Formulation

Version 4.9	Revision Date: 30.09.2023	SDS Number: 25247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014
Haza	rd statements	H361f Suspec H373 May ca system, Nerve spleen, Panci	use an allergic skin reaction. cted of damaging fertility. use damage to organs (Heart, Cardio-vascular ous system, eye - retina, Thyroid, thymus gland, reas) through prolonged or repeated exposure. xic to aquatic life with long lasting effects.
Preca	autionary statements	P260 Do not l P272 Contam the workplace P273 Avoid re	elease to the environment. rotective gloves/ protective clothing/ eye protec-
		P318 IF expo P333 + P317	IF ON SKIN: Wash with plenty of water. sed or concerned, get medical advice. If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash it befor spillage.
		<b>Storage:</b> P405 Store lo	icked up.
		<b>Disposal:</b> P501 Dispose disposal plant	e of contents/ container to an approved waste

None known.

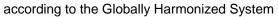
## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mix	kture
---------------------------	-------

Chemical name	CAS-No.	Concentration (% w/w)
Tildipirosin	328898-40-4	>= 10 - < 20
Citric acid monohydrate	5949-29-1	>= 5 - < 10

## 4. FIRST AID MEASURES

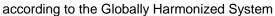
General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.





Versio 4.9	on	Revision Date: 30.09.2023		9S Number: 247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014		
I	In case of skin contact		:	of water. Remove contamin Get medical atten Wash clothing bef	ore reuse.		
	In case of eye contact		:	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.			
N	Most im	portant symptoms ects, both acute and	:	Get medical atten Rinse mouth thoro May cause an alle Suspected of dam May cause damag	tion. bughly with water. ergic skin reaction.		
		on of first-aiders o physician	:	<ul> <li>exposure.</li> <li>First Aid responders should pay attention to self-prote and use the recommended personal protective equips when the potential for exposure exists (see section 8)</li> <li>Treat symptomatically and supportively.</li> </ul>			
5. FIREFIGHTING MEASURES							
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical			
	Jnsuita nedia	ble extinguishing	:	: None known.			
Ś		hazards during fire-	:	Exposure to comb	oustion products may be a hazard to health.		
	Hazardo ucts	ous combustion prod-	:	Carbon oxides			
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray to	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		
	Special or firefi	protective equipment ghters	:	Evacuate area. In the event of fire Use personal prot	, wear self-contained breathing apparatus. ective equipment.		
6. AC	CIDEN	TAL RELEASE MEAS	SUR	RES			
t	ive equ	al precautions, protec- ipment and emer- rocedures	:		ective equipment. ing advice (see section 7) and personal pro- 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.





## **Tildipirosin (18%) Formulation**

Version 4.9	Revision Date: 30.09.2023	-	DS Number: 5247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014
	ods and materials for nment and cleaning up	:	For large spills, p ment to keep mat be pumped, store Clean up remaini bent. Local or national posal of this mate employed in the o mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- terial from spreading. If dyked material can a recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HANDLI	NG AND STORAGE			
Techn	ical measures	:	See Engineering	measures under EXPOSURE

	•	CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
		Do not breathe mist or vapours.
		Do not swallow.
		Avoid contact with eyes.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment
		Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up.
Materials to avoid		Store in accordance with the particular national regulations.
	·	Do not store with the following product types: Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	(Form of t		Control parame- ters / Permissible concentration	
Tildipirosin	328898-40-4	TWA	100 µg/m3 (OEB 2)	Internal
	Further information: DSEN			
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal

## Engineering measures : Ensure adequate ve

:

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

## Personal protective equipment

Respiratory protection

If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the rec-

according to the Globally Harmonized System



# Tildipirosin (18%) Formulation

Version 4.9	Revision Date: 30.09.2023	SDS Number: 25247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014
	ter type protection	ommended g : Particulates ty	uidelines, use respiratory protection. /pe
Ma	aterial	: Chemical-res	stant gloves
Re	emarks	on the concer stance and sp determined for applications, chemicals of	s to protect hands against chemicals depending netration and quantity of the hazardous sub- becific to place of work. Breakthrough time is not r the product. Change gloves often! For special we recommend clarifying the resistance to he aforementioned protective gloves with the cturer. Wash hands before breaks and at the av.
Eye p	rotection		wing personal protective equipment:
Skin a	and body protection	: Select approp sistance data tial. Skin contact r	riate protective clothing based on chemical re- and an assessment of the local exposure poten- nust be avoided by using impervious protective es, aprons, boots, etc).
Hygie	ne measures	: If exposure to flushing syste place. When using c Contaminated workplace.	chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. I work clothing should not be allowed out of the inated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available

according to the Globally Harmonized System



# Tildipirosin (18%) Formulation

Vers 4.9	sion	Revision Date: 30.09.2023		S Number: 247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014
		explosion limit / Upper bility limit	:	No data available	)
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	)
	Relative	e vapour density	:	No data available	)
	Relative	e density	:	No data available	)
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n-	:	No data available	9
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, dynamic	:	No data available	9
	Visc	osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	)
	Particle	size	:	No data available	)

## **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 products	:	No hazardous decomposition products are known.

## **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

according to the Globally Harmonized System



	Revision Date: 30.09.2023		OS Number: 247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014
	e toxicity assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
Tildip	pirosin:			
Acute	oral toxicity	:	LD50 (Rat): > 2,0	000 mg/kg
			LD50 (Mouse): >	2,000 mg/kg
Acute	dermal toxicity	:	Remarks: No dat	a available
	toxicity (other routes of histration)	:	LD50 (Mouse): 6 Application Rout	
Citric	acid monohydrate:			
Acute	oral toxicity	:	LD50 (Mouse): 5	,400 mg/kg
Acute	dermal toxicity	:		000 mg/kg Fest Guideline 402 e substance or mixture has no acute derr
			toxicity	
Not cl	corrosion/irritation assified based on availa conents:	ble		
Not cl	assified based on availa	ble		
Not cl	assified based on availa ponents: pirosin: es	ble :		
Not cl <u>Comp</u> Tildip Speci Resul	assified based on availa ponents: pirosin: es	ble : :	information. Rabbit	
Not cl Comp Tildip Speci Resul Citric Speci	assified based on availa <b>conents:</b> <b>birosin:</b> es t <b>acid monohydrate:</b> es	ble : :	information. Rabbit No skin irritation Rabbit	
Not cl <u>Comp</u> Tildip Speci Resul Citric	assified based on availa <b>conents:</b> <b>birosin:</b> es t <b>acid monohydrate:</b> es	ble	information. Rabbit No skin irritation	
Not cl Comp Tildip Speci Resul Citric Speci Resul Serio	assified based on availa <u>ponents:</u> pirosin: es t acid monohydrate: es t us eye damage/eye irri	i	information. Rabbit No skin irritation Rabbit No skin irritation <b>on</b>	
Not cl Comp Tildip Speci Resul Citric Speci Resul Serio Not cl	assified based on availa <u>conents:</u> <b>birosin:</b> es t <b>acid monohydrate:</b> es t	i	information. Rabbit No skin irritation Rabbit No skin irritation <b>on</b>	
Not cl Comp Tildip Speci Resul Citric Speci Resul Serio Not cl <u>Comp</u>	assified based on availa <u>conents:</u> <b>birosin:</b> es t <b>acid monohydrate:</b> es t <b>us eye damage/eye irri</b> assified based on availa <u>conents:</u>	i	information. Rabbit No skin irritation Rabbit No skin irritation <b>on</b>	
Not cl Comp Tildip Speci Resul Citric Speci Resul Serio Not cl <u>Comp</u>	assified based on availa <u>conents:</u> <b>birosin:</b> es t <b>acid monohydrate:</b> es t <b>us eye damage/eye irri</b> assified based on availa <u>conents:</u> <b>birosin:</b> es	i	information. Rabbit No skin irritation Rabbit No skin irritation <b>on</b>	
Not cl Comp Tildip Speci Resul Citric Speci Resul Serio Not cl Comp Tildip Speci Resul	assified based on availa <u>conents:</u> <b>birosin:</b> es t <b>acid monohydrate:</b> es t <b>us eye damage/eye irri</b> assified based on availa <u>conents:</u> <b>birosin:</b> es	i	information. Rabbit No skin irritation Rabbit No skin irritation on information.	

according to the Globally Harmonized System



## **Tildipirosin (18%) Formulation**

Version 4.9	Revision Date: 30.09.2023	SDS Number: 25247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014

#### Respiratory or skin sensitisation

## Skin sensitisation

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Components:

#### Tildipirosin:

Test Type	: Maximisation Test
Exposure routes	: Dermal
Species	: Guinea pig
Result	: Sensitiser

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

Tildipirosin:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Chromosomal aberration Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Result: negative
	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative
Citric acid monohydrate:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: in vitro micronucleus test Result: positive
	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat
	0/45

according to the Globally Harmonized System



## **Tildipirosin (18%) Formulation**

Version 4.9	Revision Date: 30.09.2023	SDS Number: 25247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014			
		Application Ro Result: negativ	•			
Carci	inogenicity					
Not c	Not classified based on available information.					

## **Reproductive toxicity**

Suspected of damaging fertility.

#### **Components:**

#### **Tildipirosin:**

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral General Toxicity F1: LOAEL: 80 mg/kg body weight Symptoms: Effects on F1 offspring Result: Effects on reproduction parameters
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rabbit, females Embryo-foetal toxicity: NOAEL: 30 mg/kg body weight Symptoms: Reduced body weight Result: No teratogenic potential Remarks: The effects were seen only at maternally toxic dos- es.
		Test Type: Embryo-foetal development Species: Rat, female Embryo-foetal toxicity: NOAEL: 30 mg/kg body weight Symptoms: Reduced body weight Result: No teratogenic potential Remarks: The effects were seen only at maternally toxic dos- es.
Reproductive toxicity - As- sessment	:	Some evidence of adverse effects on sexual function and fertility, based on animal experiments.
Citric acid monohydrate:		
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion

#### STOT - single exposure

Not classified based on available information.

#### **Components:**

## Citric acid monohydrate:

Assessment : May cause respiratory irritation.

Result: negative

according to the Globally Harmonized System



## **Tildipirosin (18%) Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.9	30.09.2023	25247-00025	Date of first issue: 24.10.2014

#### STOT - repeated exposure

May cause damage to organs (Heart, Cardio-vascular system, Nervous system, eye - retina, Thyroid, thymus gland, spleen, Pancreas) through prolonged or repeated exposure.

#### **Components:**

#### **Tildipirosin:**

Target Organs	:	Heart, Cardio-vascular system, Nervous system, eye - retina,
		Thyroid, thymus gland, spleen, Pancreas
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

#### **Repeated dose toxicity**

#### **Components:**

Tildipirosin:Species:NOAEL:LOAEL:Application Route:Exposure time:Target Organs:Symptoms:	Rat 20 mg/kg 60 mg/kg Oral 90 d spleen, thymus gland Salivation
Species:LOAEL:Application Route:Exposure time:Target Organs:Symptoms:	Dog 20 mg/kg Oral 28 d Heart, Central nervous system, Blood Tremors
Species:NOAEL:Application Route:Exposure time:Target Organs:Symptoms:	Dog 6 mg/kg Oral 90 d Heart, Cardio-vascular system Irritability
Species:NOAEL:LOAEL:Application Route:Exposure time:Target Organs:	Dog 10 mg/kg 50 mg/kg Oral 55 Weeks Nervous system, eye - retina, Heart, Thyroid, spleen, thymus gland, Pancreas
Citric acid monohydrate:	

# Species: RatNOAEL: 4,000 mg/kgLOAEL: 8,000 mg/kgApplication Route: IngestionExposure time: 10 Days

according to the Globally Harmonized System



/ersion I.9	Revision Date: 30.09.2023	-	9S Number: 247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014
Not cl	ation toxicity assified based on availa			
-	rience with human exp ponents:	ost	ire	
	birosin:			
-	ral Information	:	No human inform	ation is available.
2. ECOL	OGICAL INFORMATION	N		
Ecoto	oxicity			
Com	oonents:			
Tildip	birosin:			
-	ity to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 138 mg/l 6 h est Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): 32 mg/l 3 h est Guideline 202
Toxici plants	ity to algae/aquatic	:	EC50 ( Pseudokir mg/l Exposure time: 72 Method: OECD T	
			NOEC ( Pseudok mg/l Exposure time: 72 Method: OECD T	
			EC50 ( Anabaena Exposure time: 72 Method: OECD T	
			NOEC (Anabaen mg/l Exposure time: 72 Method: OECD T	
M-Fac icity)	ctor (Acute aquatic tox-	:	10	
Toxic	ity to microorganisms	:	EC50: 112.4 mg/l Exposure time: 3 Test Type: Respin Method: OECD T	h
			NOEC: 0.23 mg/l	

according to the Globally Harmonized System



Vers 4.9	sion	Revision Date: 30.09.2023		9S Number: 247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014
				Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
	M-Facto toxicity)	or (Chronic aquatic	:	100	
	Citric a	cid monohydrate:			
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,535 mg/l Exposure time: 24 h	
	Persist	ence and degradabili	ty		
	Compo	onents:			
	<b>Tildipir</b> Biodegi	r <b>osin:</b> radability	:	Result: Not readily Biodegradation: 1 Exposure time: 28 Method: OECD Te	4.7 %
		radability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD Te	97 %
	Bioacc	umulative potential			
	<u>Compo</u>	onents:			
		n <b>cid monohydrate:</b> n coefficient: n- /water	:	log Pow: -1.72	
		<b>y in soil</b> a available			
		adverse effects a available			
13. I	DISPOS	AL CONSIDERATION	IS		
	Dispos	al methods			
	-	from residues	:	Do not dispose of	
	Contarr	ninated packaging	:		ordance with local regulations. should be taken to an approved waste han- cling or disposal.

according to the Globally Harmonized System



## Tildipirosin (18%) Formulation

Version	Revision Date: 30.09.2023	SDS Number:	Date of last issue: 04.04.2023
4.9		25247-00025	Date of first issue: 24.10.2014
		If not otherwise	e specified: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

#### International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Tildipirosin)
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.
r ropor ompping name	•	(Tildipirosin)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Tildipirosin)
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

## Transport in bulk according to IMO instruments

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





## Tildipirosin (18%) Formulation

Version 4.9	Revision Date: 30.09.2023		DS Number: 5247-00025	Date of last issue: 04.04.2023 Date of first issue: 24.10.2014
The AICS DSL	•	odue :	<b>ct are reported in</b> not determined not determined	the following inventories:
IECS	C	:	not determined	
16. OTHE	R INFORMATION			
Revis	sion Date	:	30.09.2023	
Furt	ner information			
	ces of key data used to bile the Safety Data ht	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
Date	format	:	dd.mm.yyyy	

#### 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

according to the Globally Harmonized System



## Tildipirosin (18%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.9	30.09.2023	25247-00025	Date of first issue: 24.10.2014

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.

IN / EN