

Versio 3.1	n Revision Date: 05.12.2023		S Number: 95947-00010	Date of last issue: 21.11.2023 Date of first issue: 10.03.2020		
SECTI	SECTION 1. IDENTIFICATION					
Р	oduct name	:	Oxytetracycline	(10%) Formulation		
Other means of identification		:	ENGEMYCIN (A003308) COOPERS ENGEMYCIN 100 OXYTETRACYCLINE HYDROCHLORIDE 100MG/ML INJECTION (37256)			
м	anufacturer or supplier's	deta	ils			
С	Company		MSD			
Address		:		, 6th floor, Ciudad Autonoma rgentina C1013AAP		
Т	elephone	:	908-740-4000			
E	nergency telephone	:	1-908-423-6000			
E	mail address	:	EHSDATASTEW	/ARD@msd.com		
R	ecommended use of the c	hem	ical and restriction	ons on use		
	ecommended use estrictions on use	:	Veterinary produ Not applicable	ict		

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 2A
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 1A
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

### **GHS** label elements

Hazard pictograms



### SAFETY DATA SHEET



### **Oxytetracycline (10%) Formulation**

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Signa	ll Word	: Danger				
Hazard Statements		H317 May caus H319 Causes s H360D May da	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H360D May damage the unborn child. H410 Very toxic to aquatic life with long lasting effects.			
Precautionary Statements		P202 Do not ha and understood P261 Avoid bre P264 Wash ski P272 Contamir the workplace. P273 Avoid rel P280 Wear pro	<ul> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P261 Avoid breathing mist or vapors.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P272 Contaminated work clothing should not be allowed out of</li> </ul>			
		P305 + P351 + for several min easy to do. Cou P308 + P313 If attention. P333 + P313 If vice/ attention. P337 + P313 If tention.	Exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical ad- eye irritation persists: Get medical advice/ at- fake off contaminated clothing and wash it before			
		<b>Storage:</b> P405 Store loc	ked up.			
		Disposal:	of contents/ container to an approved waste			
Othe	r hazards which do no	ot result in classifica	tion			

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Oxytetracycline	79-57-2	>= 10 -< 20
Ethanolamine	141-43-5	>= 1 -< 2,5
Sodium hydroxymethanesulphinate	149-44-0	>= 0,1 -< 1





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SECTION	4. FIRST AID MEASU	RES				
Gene	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.			
lf inha	If inhaled		l, remove to fresh air. ical attention.			
In cas	se of skin contact	for at lea and shoe Get med Wash clo	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.			
In cas	se of eye contact	: In case of for at lea	In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.			
If swallowed Most important symptoms and effects, both acute and delayed		Get med	ved, DO NOT induce vomiting. ical attention. buth thoroughly with water.			
		: Causes May cau Causes s	skin irritation. se an allergic skin reaction. serious eye irritation. nage the unborn child.			
Prote	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	s to physician		nptomatically 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)
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 for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protec- tive equipment and emer- gency procedures		:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).		
Environmental precautions		:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.		
	Methods and materials for containment and cleaning up		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the cl determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oxytetracycline	79-57-2	TWA	500 μg/m3 (OEB 2)	Internal
	Further infor	Further information: DSEN		
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal
Ethanolamine	141-43-5	CMP	3 ppm	AR OEL
		CMP - CPT	6 ppm	AR OEL
		TWA	3 ppm	ACGIH
		STEL	6 ppm	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 exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic 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 Hygiene measures	::	Work uniform or laboratory coat. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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Ap	Appearance Color Odor Odor Threshold		liquid, Aqueous s	olution
Co			No data available	)
Oc			No data available	)
Oc			No data available	
p⊢	l	:	No data available	)
Me	elting point/freezing point	:	No data available	)
	tial boiling point and boiling nge	:	No data available	
Fla	ash point	:	No data available	9
Ev	aporation rate	:	Not applicable	
Fla	ammability (solid, gas)	:	Not applicable	
Fla	ammability (liquids)	:	No data available	)
	per explosion limit / Upper mmability limit	:	No data available	9
	wer explosion limit / Lower mmability limit	:	No data available	
Va	por pressure	:	No data available	9
Re	lative vapor density	:	Not applicable	
Re	lative density	:	No data available	)
De	nsity	:	No data available	)
Sc	lubility(ies) Water solubility	:	No data available	)
	rtition coefficient: n- tanol/water	:	Not applicable	
	toignition temperature	:	No data available	9
De	composition temperature	:	No data available	
Vis	scosity Viscosity, kinematic	:	Not applicable	
Ex	plosive properties	:	Not explosive	
O	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
Mo	blecular weight	:	No data available	)



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Partio	cle size	:	Not applicable	
SECTION	10. STABILITY AND RE	EAC	TIVITY	
Poss tions Conc Incor Haza produ	nical stability ibility of hazardous reac- litions to avoid npatible materials irdous decomposition		Stable under n Can react with None known. Oxidizing agen No hazardous	as a reactivity hazard. ormal conditions. strong oxidizing agents. ts decomposition products are known.
Inforr expo	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	<b>e toxicity</b> lassified based on availa	hla	information	
Prod		ble	iniomation.	
	e oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 5.000 mg/kg ation method
Acute	e inhalation toxicity	:	Acute toxicity es Exposure time: Test atmospher Method: Calcula	e: vapor
Acute	e dermal toxicity	:	Acute toxicity es Method: Calcula	stimate: > 5.000 mg/kg ation method
<u>Com</u>	ponents:			
Oxyt	etracycline:			
Acute	e oral toxicity	:	LD50 (Rat): 4.8	00 mg/kg
			LD50 (Mouse): Remarks: Evide	2.240 mg/kg ence of phototoxicity was observed
Acute	e inhalation toxicity	:	Remarks: No da	ata available
Acute	e dermal toxicity	:	Remarks: No da	ata available
	e toxicity (other routes of nistration)	:	LD50 (Rat): 4.8 Application Rou	40 mg/kg ite: Intramuscular
			LD50 (Mouse): Application Rou	3.500 mg/kg ite: Subcutaneous



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Ethar	nolamine:				
Acute oral toxicity Acute inhalation toxicity		:	LD50 (Rat): 1.	089 mg/kg	
		:	<ul> <li>Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Expert judgment Remarks: Based on national or regional regulation.</li> </ul>		
Acute	e dermal toxicity	:	LD50 (Rabbit,	female): 1.018 mg/kg	
Sodiu	um hydroxymethane	esulphi	inate:		
Acute	e oral toxicity	:		2.000 mg/kg D Test Guideline 423 The substance or mixture has no acute oral t	
Acute	e dermal toxicity	:		2.000 mg/kg D Test Guideline 402 The substance or mixture has no acute derm	
Skin	corrosion/irritation				
	es skin irritation.				
	es skin irritation. ponents:				
<u>Com</u>	ponents: etracycline:	:	No data availa	ble	
<u>Com</u> Oxyte Rema	ponents: etracycline: arks	:	No data availa	ble	
<u>Com</u> Oxyte Rema	ponents: etracycline: arks nolamine: ies	:	Rabbit	ble r 3 minutes to 1 hour of exposure	
Com Oxyte Rema Ethar Speci Resu	ponents: etracycline: arks nolamine: ies	: : : esulph	Rabbit Corrosive after		
Com Oxyte Rema Ethar Speci Resu	ponents: etracycline: arks nolamine: ies It um hydroxymethane	: esulphi :	Rabbit Corrosive after	r 3 minutes to 1 hour of exposure	
Com Oxyte Rema Speci Resu Speci Resu Speci	ponents: etracycline: arks nolamine: ies It um hydroxymethane	irritati	Rabbit Corrosive after inate: Rat No skin irritatio	r 3 minutes to 1 hour of exposure	
Com Oxyte Rema Speci Resu Sodiu Speci Resu Serio Caus	ponents: etracycline: arks nolamine: ies It um hydroxymethane ies It	irritati	Rabbit Corrosive after inate: Rat No skin irritatio	r 3 minutes to 1 hour of exposure	
Com Oxyte Rema Speci Resu Sodiu Speci Resu Serio Caus <u>Com</u>	ponents: etracycline: arks nolamine: ies lt um hydroxymethane ies lt ous eye damage/eye es serious eye irritatio	irritati	Rabbit Corrosive after inate: Rat No skin irritatio	r 3 minutes to 1 hour of exposure	
Com Oxyte Rema Speci Resu Sodiu Speci Resu Serio Caus <u>Com</u>	ponents: etracycline: arks nolamine: ies It um hydroxymethane ies It pus eye damage/eye es serious eye irritatio ponents: etracycline:	irritati	Rabbit Corrosive after inate: Rat No skin irritatio	r 3 minutes to 1 hour of exposure	
Com Oxyte Rema Specia Resu Sodiu Specia Resu Serio Caus Com Rema	ponents: etracycline: arks nolamine: ies It um hydroxymethane ies It pus eye damage/eye es serious eye irritatio ponents: etracycline:	irritati	Rabbit Corrosive after inate: Rat No skin irritatio	r 3 minutes to 1 hour of exposure	





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Sodiu	um hydroxymethane	sulph	inate:		
Resu	Species : Result : Method :		Rabbit No eye irritation OECD Test Guideline 405		
Resp	iratory or skin sensi	itizatio	n		
Skin	sensitization				
May o	cause an allergic skin	reaction	on.		
Resp	iratory sensitization				
Not c	lassified based on ava	ailable	information.		
<u>Com</u>	oonents:				
Oxyte	etracycline:				
Test Resu		:	Human repeat in Sensitizer	sult patch test (HRIPT)	
Ethar	nolamine:				
Test <sup>-</sup>	Гуре	:	Maximization Te	st	
	es of exposure	:	Skin contact		
Speci Resu		:	Guinea pig negative		
			C		
	um hydroxymethane	sulph	inate:		
Test <sup>-</sup>		:	Maximization Tes	st	
Speci	es of exposure	÷	Skin contact Guinea pig		
Metho	bd	:	OECD Test Guid	leline 406	
Resu	lt	:	negative		
Germ	cell mutagenicity				
	lassified based on ava	ailable	information.		
Com	oonents:				
Oxyte	etracycline:				
-	toxicity in vitro	:	Test Type: Micro Result: negative	bial mutagenesis assay (Ames test)	
			Test Type: Mous Metabolic activat Result: positive	e Lymphoma tion: Metabolic activation	
				chromatid exchange assay inese hamster ovary cells I	
			Test Type: Chror Result: negative	mosomal aberration	
Geno	toxicity in vivo	:	Test Type: Micro	nucleus test	



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		Species: Mouse Cell type: Bone marrow Application Route: Oral Result: equivocal					
		Test Type: in vivo assay Species: Mouse Application Route: Intraperitoneal injection Result: negative					
	cell mutagenicity - sment	: Weight of evidence does not support classification as a cell mutagen.	germ				
Ethan	olamine:						
Genot	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative					
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative					
		Test Type: Chromosome aberration test in vitro Result: negative					
Genot	oxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (i cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative	n vivo				
Sodiu	m hydroxymethane	Iphinate:					
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative					
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive					
Genot	oxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (i cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: positive	n vivo				
	cell mutagenicity - sment	: Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.					

### Carcinogenicity

Not classified based on available information.



rsion	Revision Date: 05.12.2023	SDS Number: 5495947-000	
<u>Comp</u>	oonents:		
Oxyte	etracycline:		
Speci	•	: Mouse	
	cation Route	: Oral	
	sure time	: 104 week	3
Resul	t	: negative	
Speci		: Rat	
	cation Route	: Oral	
	sure time	: 103 week	3
Resul		: equivocal	and Dituitory aland
Rema	et Organs arks		and, Pituitary gland anism or mode of action may not be relevant in h
		mans.	
Carcir ment	nogenicity - Assess-	: Weight of cinogen	evidence does not support classification as a car
	oductive toxicity	d	
•	damage the unborn chi	u.	
	oonents:		
-	etracycline:		
Effect	s on fertility		: Two-generation reproduction toxicity study
		Species: F	n Route: Oral
			OAEL: 18 mg/kg body weight
			effects on fertility., No effect on reproduction
			No significant adverse effects were reported
Effect	s on fetal development	: Test Type	: Embryo-fetal development
	······································	Species: I	
			n Route: Oral
			etal toxicity.: LOAEL: 48 mg/kg body weight
		Result: PC	stimplantation loss., Skeletal malformations.
			: Embryo-fetal development
		Species: I	
			n Route: Oral
			oxicity Maternal: LOAEL: 1.200 mg/kg body weig etal toxicity.: NOAEL: 1.500 mg/kg body weight
			teratogenic effects.
			Maternal toxicity observed.
		Test Type	: Embryo-fetal development
		Species: I	
			n Route: Oral
		General T	oxicity Maternal: LOAEL: 1.325 mg/kg body weig
			etal toxicity.: NOAEL: 2.100 mg/kg body weight
			o teratogenic effects.
		Remarks:	Maternal toxicity observed.
		Test Type	: Embryo-fetal development

Test Type: Embryo-fetal development



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			Result: Postimpla	city.: LOAEL: 41,5 mg/kg body weight ntation loss., No fetal abnormalities.
			Species: Dog Application Route Embryo-fetal toxic	vo-fetal development : Intramuscular city.: LOAEL: 20,75 mg/kg body weight nd visceral variations ., Postimplantation
Repro sessm	oductive toxicity - As- nent		Positive evidence human epidemiol	of adverse effects on development from ogical studies.
Ethar	olamine:			
	s on fertility		Species: Rat Application Route Method: OECD T Result: negative	
Effect	s on fetal development		Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative	
Sodiu	ım hydroxymethanesu	Iphir	nate:	
	s on fertility	•	Test Type: Comb	
Effect	s on fetal development		Test Type: Embry Species: Rat Application Route Method: OECD T Result: positive	
Repro sessm	oductive toxicity - As- nent		Some evidence o animal experimen	f adverse effects on development, based on its.
	-single exposure assified based on availa	able i	nformation.	
	oonents:			
	olamine:			

Assessment

: May cause respiratory irritation.



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	<b>F-repeated exposure</b> classified based on ava	ilable information.	
<u>Com</u>	ponents:		
Etha	nolamine:		
Asse	ssment	: No significant tions of 0.2 mg	health effects observed in animals at concentra- ///6h/d or less.
Repe	eated dose toxicity		
<u>Com</u>	ponents:		
Oxyt	etracycline:		
Spec		: Rat	
LOAE		: 198 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 13 Weeks : Bone	
Rema			adverse effects were reported
Spec	ies	: Mouse	
LÕAI		: 7.990 mg/kg	
	cation Route	: Oral	
	sure time	: 13 Weeks	
Rema	et Organs arks	: Bone : No significant :	adverse effects were reported
Spec	ies	: Dog	
NOA	EL	: 125 mg/kg	
LOAE		: 250 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 12 Months : Testis	
Rema			city observed in testing
		-	
Spec NOA		: Rat	
LOA		: 40 mg/kg : 100 mg/kg	
	cation Route	: Intraperitoneal	
	sure time	: 14 Days	
	et Organs	: Kidney	
Etha	nolamine:		
Spec		: Rat	
NOA	EL	: > 120 mg/kg	
	cation Route	: Ingestion	
	sure time	: > 75 Days	fuero einciler meteriele
Rema	aiks	: Based on data	from similar materials
Spec		: Rat	
NOA		: >= 0,15 mg/l	t/mint/fuma)
Арріі	cation Route	: inhalation (dus	svinisviume)



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Exposure time : Method :		28 Days OECD Test Guideline 412		
Sodiu	um hydroxymethanesu	lph	inate:	
	EL cation Route sure time	:	Rat 600 mg/kg Ingestion 13 Weeks OECD Test Guide	eline 408
-	ation toxicity lassified based on availa	ble	information.	
Ехре	rience with human exp	osi	ıre	
<u>Com</u>	oonents:			
-	etracycline:			
Inges	tion	:		ointestinal disturbance, tooth discoloration use birth defects.
	oxicity			
	-			
<u>Com</u> Oxyte	oxicity conents: etracycline: ity to fish	:		ipes (Japanese medaka)): 110 mg/l
<u>Com</u> Oxyte	oonents: etracycline:	:	Exposure time: 9	
<u>Comj</u> Oxyte Toxic	oonents: etracycline: ity to fish	:	Exposure time: 9 Method: OECD T EC50 (Daphnia n Exposure time: 4	5 h est Guideline 203 nagna (Water flea)): 621 mg/l
<u>Comj</u> Oxyte Toxic	<b>conents:</b> etracycline: ity to fish ity to daphnia and other	:	Exposure time: 90 Method: OECD T EC50 (Daphnia n Exposure time: 40 Method: OECD T EC50 (Daphnia n Exposure time: 40	5 h est Guideline 203 hagna (Water flea)): 621 mg/l 3 h est Guideline 202 hagna (Water flea)): 669 mg/l
<u>Com</u> Oxyte Toxic Toxic aquat	ponents: etracycline: ity to fish ity to daphnia and other ic invertebrates		Exposure time: 90 Method: OECD T EC50 (Daphnia n Exposure time: 40 Method: OECD T EC50 (Daphnia n Exposure time: 40	5 h est Guideline 203 hagna (Water flea)): 621 mg/l 3 h est Guideline 202 hagna (Water flea)): 669 mg/l 3 h est Guideline 202 ): 0,032 mg/l
Com Oxyte Toxic Toxic aquat	ponents: etracycline: ity to fish ity to daphnia and other ic invertebrates		Exposure time: 9 Method: OECD T EC50 (Daphnia n Exposure time: 4 Method: OECD T EC50 (Daphnia n Exposure time: 4 Method: OECD T EC50 (Anabaena	5 h est Guideline 203 hagna (Water flea)): 621 mg/l 3 h est Guideline 202 hagna (Water flea)): 669 mg/l 3 h est Guideline 202 ): 0,032 mg/l 2 h
Com Oxyte Toxic Toxic aquat	ponents: etracycline: ity to fish ity to daphnia and other ic invertebrates		Exposure time: 99 Method: OECD T EC50 (Daphnia n Exposure time: 44 Method: OECD T EC50 (Daphnia n Exposure time: 44 Method: OECD T EC50 (Anabaena Exposure time: 72 NOEC (Anabaena	5 h est Guideline 203 hagna (Water flea)): 621 mg/l 3 h est Guideline 202 hagna (Water flea)): 669 mg/l 3 h est Guideline 202 ): 0,032 mg/l 2 h
Com Oxyte Toxic Toxic aquat Toxic plants M-Fac icity)	ponents: etracycline: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic ctor (Acute aquatic tox- ctor (Chronic aquatic	:	Exposure time: 99 Method: OECD T EC50 (Daphnia n Exposure time: 44 Method: OECD T EC50 (Daphnia n Exposure time: 44 Method: OECD T EC50 (Anabaena Exposure time: 72 NOEC (Anabaena Exposure time: 72	5 h est Guideline 203 hagna (Water flea)): 621 mg/l 3 h est Guideline 202 hagna (Water flea)): 669 mg/l 3 h est Guideline 202 ): 0,032 mg/l 2 h



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			Method: OECD To	est Guideline 209	
			NOEC: 0,2 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ration inhibition	
Ethand	olamine:				
Toxicity	y to fish	:	Exposure time: 96	arpio (Carp)): 349 mg/l 5 h 67/548/EEC, Annex V, C.1.	
	y to daphnia and other c invertebrates	:	Exposure time: 48	nagna (Water flea)): 65 mg/l 3 h · 67/548/EEC, Annex V, C.2.	
Toxicity plants	Toxicity to algae/aquatic plants		ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokin Exposure time: 72 Method: OECD Te		
Toxicity	y to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 41 Method: OECD Te		
	y to daphnia and other c invertebrates (Chron- ity)	:	: NOEC (Daphnia magna (Water flea)): 0,85 mg/l Exposure time: 21 d		
	y to microorganisms	:	EC10 (Pseudomonas putida): > 1.000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209		
Sodiur	m hydroxymethanesu	lphi	inate:		
	y to fish	:		idus (Golden orfe)): > 10.000 mg/l S h	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Toxicity plants	y to algae/aquatic	:	ErC50 (Desmode Exposure time: 72 Method: OECD Te		
			NOEC (Desmode Exposure time: 72 Method: OECD To		
Toxicity	y to fish (Chronic tox-	:	NOEC (Danio reri Exposure time: 35	io (zebra fish)): 13,5 mg/l 5 d	



/ersion 8.1	Revision Date: 05.12.2023		DS Number: 95947-00010	Date of last issue: 21.11.2023 Date of first issue: 10.03.2020
			Method: OECD T	est Guideline 210
	ity to daphnia and other tic invertebrates (Chron- icity)	:	EC10 (Daphnia m Exposure time: 21 Method: OECD T	
Toxic	ity to microorganisms	:	NOEC: 10 mg/l Exposure time: 4	h
Persi	stence and degradabil	ty		
Com	ponents:			
Ethai	nolamine:			
Biode	egradability	:	Result: Readily bi Biodegradation: : Exposure time: 2 <sup>4</sup> Method: OECD Te	> 90 %
Sodiu	um hydroxymethanesu	lph	inate:	
Biode	egradability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	77 %
Bioa	ccumulative potential			
Com	ponents:			
Ethai	nolamine:			
	ion coefficient: n- ol/water	:	log Pow: -2,3 Method: OECD T	est Guideline 107
Sodiu	um hydroxymethanesu	lph	inate:	
	ion coefficient: n- ol/water	:	log Pow: < 0,3	
Mobi	lity in soil			
No da	ata available			
	<b>r adverse effects</b> ata available			
ECTION	13. DISPOSAL CONSIL	DEF	RATIONS	
<b>_</b> .				
-	osal methods e from residues		Do not dispose of	waste into sewer.

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 was handling site for recycling or disposal.	te
	If not otherwise specified: Dispose of as unused produ	ct.



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### **Oxytetracycline (10%) Formulation**

Versi 3.1		vision Date: 12.2023	SDS Number: 5495947-00010		Date of last issue: 21.11.2023 Date of first issue: 10.03.2020
SEC	FION 14. TR		RM	ATION	
I	Internationa	al Regulations			
	UNRTDG				
	UN number		:	UN 3082	
	Proper shipp	ping name	:	ENVIRONMENTA N.O.S. (oxytetracycline)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
(	Class		:	9	
	Packing grou	up	:	III	
	abels		:	9	
	Environmen	tally hazardous	:	yes	
	ATA-DGR				
	UN/ID No.		:	UN 3082	
	Proper shipp	oing name	:	(Oxytetracycline)	azardous substance, liquid, n.o.s.
	Class		:	9	
	Packing grou	up	÷	III Miscellaneous	
	Labels Packing inst	ruction (cargo	÷	964	
	aircraft)	inclion (cargo	•	304	
		ruction (passen-	:	964	
		tally hazardous	:	yes	
1	MDG-Code	•			
	UN number	·	:	UN 3082	
	Proper shipp	bing name	:		ALLY HAZARDOUS SUBSTANCE, LIQUID,
(	Class		:	9	
	Packing grou	up	:	III	
	Labels		:	9	
	EmS Code	4	:	F-A, S-F	
I	Marine pollu	llant		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.

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

Safety, health and environmental regula mixture	tions/legislatio	n specific for the substance or
Argentina. Carcinogenic Substances and A Registry.	Agents :	Not applicable

Control of precursors and essential chemicals for the	:	Not applicable



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prepa	aration of drugs.						
<b>The i</b> AICS	•	luct :	are reported in th not determined	ne following inventories:			
DSL		:	not determined				
IECS	с	:	not determined				
SECTION	16. OTHER INFORMAT	ΓΙΟΙ	N				
	ion Date format	:	05.12.2023 dd.mm.yyyy				
Sourc comp	<b>ter information</b> ces of key data used to ile the Material Safety Sheet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/			
Full t	Full text of other abbreviations						
ACGI AR O		:		eshold Limit Values (TLV) ational Exposure Limits			
ACGI AR O AR O	H / TWA H / STEL EL / CMP EL / CMP - CPT	: : : :	8-hour, time-weig Short-term expos TLV (Threshold L STEL (Short Terr	ure limit imit Value) n Limit Value)			
<ul> <li>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; ICSO - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECS - 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; 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</li> </ul>							



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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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