

Vers 7.0	sion	Revision Date: 04.04.2023		DS Number: 1617-00018	Date of last issue: 01.10.2022 Date of first issue: 12.05.2016				
SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking								
1.1	<b>1.1 Product identifier</b> Trade name       : Oxytetracycline Formulation								
1.2	Use of	<b>nt identified uses of t</b> the Sub- 'Mixture	he s :	substance or mixt Veterinary produc	ure and uses advised against at				
	Recom on use	mended restrictions	:	Not applicable					
1.3	Details	of the supplier of the	sat	ety data sheet					
	Compa	ny	:	MSD 20 Spartan Road 1619 Spartan, So	outh Africa				
	Teleph	one	:	+27119239300					
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com				
4.4.1	Emorao	nov tolonkono numb	~ *						

## 1.4 Emergency telephone number

+1-908-423-6000

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 2

Eye irritation, Category 2 Skin sensitisation, Category 1 Reproductive toxicity, Category 1A Specific target organ toxicity - single exposure, Category 3 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H223: Flammable aerosol.

H229: Pressurised container: May burst if heated.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H360D: May damage the unborn child.

H336: May cause drowsiness or dizziness.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



## SAFETY DATA SHEET



## **Oxytetracycline Formulation**

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Signa	l word	: Dange	r	
Haza	rd statements	: H223 H229 H317 H319 H336 H360D H410	May cause Causes se May cause May dama	e aerosol. ed container: May burst if heated. e an allergic skin reaction. prious eye irritation. e drowsiness or dizziness. ge the unborn child. to aquatic life with long lasting effects.
Preca	autionary statements	P211 P251 P273 P280	Obtain spe Keep away and other ig Do not spr Do not pie Avoid relea	ecial instructions before use. y from heat, hot surfaces, sparks, open gnition sources. No smoking. ay on an open flame or other ignition source. rce or burn, even after use. ase to the environment. ective gloves/ protective clothing/ eye protec- n.
		Respo P391 Storag	Collect spi <b>je:</b>	
		-		otect from sunlight. Do not expose to tem- ng 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

Butane Propan-2-ol Isobutane oxytetracycline

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

May displace oxygen and cause rapid suffocation.

## **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Butane	106-97-8	Flam. Gas 1A;	>= 20 - < 30
	203-448-7	H220	
	601-004-00-0	Press.	
		Gas Liquefied gas;	
		H280	
		STOT SE 3; H336	



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Prop	an-2-ol	67-63-0 200-661-7 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 10 - < 20
Isobu	utane	75-28-5 200-857-2 601-004-00-0	Flam. Gas 1A; H220 Press. Gas Liquefied gas; H280 STOT SE 3; H336	>= 10 - < 20
Prop	ane	74-98-6 200-827-9 601-003-00-5	Flam. Gas 1A; H220 Press. Gas Liquefied gas; H280 STOT SE 3; H336	>= 10 - < 20
oxyte	etracycline	79-57-2 201-212-8	Skin Sens. 1A; H317 Repr. 1A; H360D Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 2,5 - < 10

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of 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.
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).
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.



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In cas	se of eye contact	:	for at least 15 mi	nove contact lens, if worn.
lf swa	llowed	:	Get medical atte	NOT induce vomiting. ntion. roughly with water.
	mportant symptoms a	nd e		-
Symp	toms	:	Gastrointestinal	disturbance
Risks		:	Gas reduces oxy	gen available for breathing.
			Causes serious	siness or dizziness.
4.3 Indica	tion of anv immediate	meo	dical attention an	d special treatment needed
Treat	•	:		tically and supportively.
5.1 Exting	I 5: Firefighting mean puishing media			
5.1 Exting			es Water spray Alcohol-resistant Carbon dioxide ( Dry chemical	
<b>5.1 Exting</b> Suital	uishing media ble extinguishing media itable extinguishing		Water spray Alcohol-resistant Carbon dioxide (	
<b>5.1 Exting</b> Suital Unsu media	uishing media ole extinguishing media itable extinguishing	:	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical None known.	CO2)
5.1 Exting Suital Unsu media 5.2 Specia	uishing media ole extinguishing media itable extinguishing a al hazards arising from fic hazards during fire-	:	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical None known. <b>substance or m</b> Flash back poss Vapours may for Exposure to com	CO2) <b>ixture</b> ible over considerable distance. m explosive mixtures with air. abustion products may be a hazard to health. e rises there is danger of the vessels bursting
5.1 Exting Suital Unsu media 5.2 Specia Speci fightir	uishing media ole extinguishing media itable extinguishing a al hazards arising from fic hazards during fire-	: : : :	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical None known. <b>e substance or m</b> Flash back poss Vapours may for Exposure to com If the temperatur	CO2) <b>ixture</b> ible over considerable distance. m explosive mixtures with air. abustion products may be a hazard to health. e rises there is danger of the vessels bursting
<ul> <li><b>5.1 Exting</b>         Suital         Unsu         media         Speci         fightir         Haza         ucts         </li> </ul>	uishing media ole extinguishing media itable extinguishing a <b>al hazards arising from</b> fic hazards during fire-	: : : :	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical None known. <b>substance or m</b> Flash back poss Vapours may for Exposure to com If the temperatur due to the high v	CO2) <b>ixture</b> ible over considerable distance. m explosive mixtures with air. abustion products may be a hazard to health. e rises there is danger of the vessels bursting
<ul> <li>5.1 Exting Suital</li> <li>Unsu media</li> <li>5.2 Specia Speci fightir</li> <li>Haza ucts</li> <li>5.3 Advice Speci</li> </ul>	uishing media ole extinguishing media itable extinguishing a <b>al hazards arising from</b> fic hazards during fire- ng	: : :	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical None known. <b>Substance or m</b> Flash back poss Vapours may for Exposure to com If the temperatur due to the high v Carbon oxides	CO2) <b>ixture</b> ible over considerable distance. m explosive mixtures with air. abustion products may be a hazard to health. e rises there is danger of the vessels bursting
<ul> <li>5.1 Exting Suital</li> <li>Unsu media</li> <li>5.2 Specia Speci fightir</li> <li>Haza ucts</li> <li>5.3 Advice Speci for fire</li> </ul>	uishing media ble extinguishing media itable extinguishing a al hazards arising from fic hazards during fire- ng rdous combustion prod- e for firefighters al protective equipment	: : :	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical None known. <b>substance or m</b> Flash back poss Vapours may for Exposure to com If the temperatur due to the high v Carbon oxides In the event of fin Use personal pro	CO2) <b>ixture</b> ible over considerable distance. m explosive mixtures with air. bustion products may be a hazard to health. e rises there is danger of the vessels bursting apor pressure. re, wear self-contained breathing apparatus.



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			pray to cool unopened containers. damaged containers from fire area if it is safe to do rea.
SECTION	N 6: Accidental relea	se measures	
6.1 Perso	nal precautions, prote	ctive equipment	and emergency procedures
Perso	onal precautions	Remove all Ventilate the Use person Follow safe	ersonnel to safe areas. sources of ignition. e area. al protective equipment. handling advice (see section 7) and personal pro- oment recommendations (see section 8).
6.2 Enviro	onmental precautions		
Envir	onmental precautions	Prevent furt Prevent spr barriers). Retain and	se to the environment. her leakage or spillage if safe to do so. eading over a wide area (e.g. by containment or oil dispose of contaminated wash water. rities should be advised if significant spillages ontained.
6.3 Metho	ds and material for co	ontainment and c	leaning up
	ods for cleaning up	: Non-sparkir Soak up wit Suppress (H spray jet. For large sp ment to kee be pumped Clean up re bent. Local or nat posal of this employed ir mine which Sections 13	ing tools should be used. In inert absorbent material. Inock down) gases/vapours/mists with a water ills, provide dyking or other appropriate contain- p material from spreading. If dyked material can store recovered material in appropriate container. maining materials from spill with suitable absor- ional regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- regulations are applicable. and 15 of this SDS provide information regarding or national requirements.
6.4 Refere	ence to other sections		

See sections: 7, 8, 11, 12 and 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.



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	rice on safe handling giene measures	<ul> <li>only in an a tion.</li> <li>Do not get of Avoid breat Do not swal Do not swal Do not get i Wash skin t Handle in a practice, ba sessment Keep conta Keep away other ignitio Take precat Take care to environmen Do not spra</li> <li>If exposure flushing sys place. When work clothin</li> </ul>	llow. n eyes. horoughly after handling. ccordance with good industrial hygiene and safety sed on the results of the workplace exposure as- iner tightly closed. from heat, hot surfaces, sparks, open flames and n sources. No smoking. utionary measures against static discharges. o prevent spills, waste and minimize release to the
7.2 Con	ditions for safe storage,		-
Rec	quirements for storage as and containers	: Store locke ventilated p tional regula	d up. Keep tightly closed. Keep in a cool, well- lace. Store in accordance with the particular na- ations. Do not pierce or burn, even after use. Keep ct from sunlight.
Adv	vice on common storage	Self-reactiv Organic per Oxidizing a Flammable Pyrophoric Pyrophoric Self-heating	gents solids liquids solids g substances and mixtures and mixtures, which in contact with water, emit
7 3 Sne	cific end use(s)		
-		· No data ava	ailable

Specific use(s)

: No data available

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		



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	Butane		106-97-8	OEL- RL STEL/C	2.000 ppm	ZA OEL
				nation: Occupationa nemical Agents	I Exposure Limits - Restricted	Limits For
	Propan	-2-ol	67-63-0	OEL-RL	400 ppm	ZA OEL
				nation: Occupationa nemical Agents	I Exposure Limits - Restricted	Limits For
				OEL- RL STEL/C	800 ppm	ZA OEL
				nation: Occupationa nemical Agents	I Exposure Limits - Restricted	Limits For
	oxytetra	acycline	79-57-2	TWA	500 µg/m3 (OEB 2)	Internal
		-	Further inform	nation: DSEN	· · · · · ·	
				Wipe limit	100 µg/100 cm <sup>2</sup>	Internal

### **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Propan-2-ol	67-63-0	Acetone: 40 mg/l	End of shift at end	ZA BEI
		(Urine)	of workweek	

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propan-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3
	Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	89 mg/m3
	Consumers	Skin contact	Long-term systemic effects	319 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Propan-2-ol	Fresh water	140,9 mg/l
	Marine water	140,9 mg/l
	Intermittent use/release	140,9 mg/l
	Sewage treatment plant	2251 mg/l
	Fresh water sediment	552 mg/kg dry
		weight (d.w.)
	Marine sediment	552 mg/kg dry
		weight (d.w.)
	Soil	28 mg/kg dry
		weight (d.w.)
	Oral (Secondary Poisoning)	160 mg/kg food

### **8.2 Exposure controls**

## Personal protective equipment

:

Hand protection

Remarks

Take note that the product is flammable, which may impact the selection of hand protection. : Skin should be washed after contact.

Skin and body protection

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Respi	ratory protection	sur	e assessment	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- elines, use respiratory protection.
Filt	ter type			eathing apparatus

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties Appearance ÷ Aerosol containing a liquefied gas Colour blue 2 Odour solvent-like 2 **Odour Threshold** No data available 1 No data available pН 2 Melting point/freezing point 1 No data available Initial boiling point and boiling : No data available range -80 °C Flash point 2 Evaporation rate 5 No data available Flammability (solid, gas) Flammable aerosol. 5 Upper explosion limit / Upper 9,5 %(V) 2 flammability limit Lower explosion limit / Lower : 1,8 %(V) flammability limit No data available Vapour pressure 5 Relative vapour density : No data available Relative density 2 No data available Density 0,92 g/cm<sup>3</sup> 2 Solubility(ies) Water solubility No data available 1 Partition coefficient: n-: No data available octanol/water Auto-ignition temperature No data available 1 Decomposition temperature No data available 2 Viscosity Viscosity, kinematic 1 No data available Explosive properties 2 Not explosive Oxidizing properties The substance or mixture is not classified as oxidizing. 2



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9.2 Other	information			
Flamr	nability (liquids)	:	Not applicable	
Partic	le size	:	No data availabl	e
SECTION	I 10: Stability and re	eacti	vity	
<b>10.1 Reac</b> Not cl	<b>tivity</b> assified as a reactivity	haza	rd.	
	nical stability e under normal conditio	ns.		
10.3 Poss	ibility of hazardous re	eactio	ons	
Hazar	dous reactions	:	If the temperature due to the high v	m explosive mixture with air. re rises there is danger of the vessels bursting
10.4 Cond	litions to avoid			
Condi	tions to avoid	:	Heat, flames and	d sparks.
10.5 Incor	npatible materials			
	ials to avoid	:	Oxidizing agents	3
	rdous decomposition	-		
SECTION	l 11: Toxicological i	nfor	mation	
11.1 Infor	mation on toxicologic	al ef	fects	
	nation on likely routes o		Inhalation Skin contact Ingestion Eye contact	
	e toxicity assified based on avail	able	information.	
Comp	oonents:			
Butar	ne:			
Acute	inhalation toxicity	:	LC50 (Rat): 5700 Exposure time: 1 Test atmosphere Remarks: Based	5 min
Propa	an-2-ol:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg



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Acute	e inhalation toxicity	:	LC50 (Rat): > 25 Exposure time: 6 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): > \$	5.000 mg/kg
Isobu	utane:			
Acute	e inhalation toxicity	:	LC50 (Rat): 5700 Exposure time: 15 Test atmosphere:	5 min
Prop	ane:			
Acute	e inhalation toxicity	:	LC50 (Rat): > 800 Exposure time: 15 Test atmosphere:	5 min
oxyte	etracycline:			
Acute	e oral toxicity	:	LD50 (Rat): 4.800	) mg/kg
			LD50 (Mouse): 2.3 Remarks: Evidend	240 mg/kg ce of phototoxicity was observed
Acute	e inhalation toxicity	:	Remarks: No data	a available
Acute	e dermal toxicity	:	Remarks: No data	a available
	e toxicity (other routes of nistration)	:	LD50 (Rat): 4.840 Application Route	
			LD50 (Mouse): 3.4 Application Route	
Not c	corrosion/irritation lassified based on availa ponents:	ble	information.	
	an-2-ol:			
Spec Resu		:	Rabbit No skin irritation	
	etracycline:			
Rema	arks	:	No data available	
	ous eye damage/eye irri es serious eye irritation.	tati	on	
	ponents:			
Com	ponenta.			



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Resu	t	:	Irritation to eyes	, reversing within 21 days
oxyte Rema	e <b>tracycline:</b> arks	:	No data availabl	e
Resp	iratory or skin sensi	tisatio	'n	
-	sensitisation cause an allergic skin	reactio	on.	
-	iratory sensitisation assified based on ava		information	
	oonents:		inionnation.	
Propa	an-2-ol:			
Test Expos Speci Metho Resul	sure routes es od	:	Buehler Test Skin contact Guinea pig OECD Test Guid negative	deline 406
oxyte	tracycline:			
Test Resu		:	Human repeat ir Sensitiser	nsult patch test (HRIPT)
Not cl <u>Comp</u> Butar	a <b>cell mutagenicity</b> assified based on ava <u>conents:</u> ne: toxicity in vitro			erial reverse mutation assay (AMES)
Geno				Test Guideline 471
				mosome aberration test in vitro Test Guideline 473
Geno	toxicity in vivo	:	cytogenetic assa Species: Rat Application Rout Method: OECD Result: negative	te: inhalation (gas) Test Guideline 474
Propa	an-2-ol:			
Geno	toxicity in vitro	:	Test Type: Bactor Result: negative	erial reverse mutation assay (AMES)
II			Test Type: In vit	ro mammalian cell gene mutation test
			11 / 23	



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I		Result: negat	ive
Geno	otoxicity in vivo	cytogenetic a Species: Mou	use oute: Intraperitoneal injection
Isob	utane:		
Geno	otoxicity in vitro	Method: OEC Result: negat	hromosome aberration test in vitro CD Test Guideline 473 ive sed on data from similar materials
		Result: negat	acterial reverse mutation assay (AMES) ive sed on data from similar materials
Genc	otoxicity in vivo	cytogenetic a Species: Rat Application R Method: OEC Result: negat	oute: inhalation (gas) D Test Guideline 474
Prop	ane:		
	otoxicity in vitro	Result: negat	acterial reverse mutation assay (AMES) ive sed on data from similar materials
Genc	otoxicity in vivo	cytogenetic a Species: Rat Application R Method: OEC Result: negat	oute: inhalation (gas) D Test Guideline 474
	etracycline:		
	otoxicity in vitro	: Test Type: M Result: negat	icrobial mutagenesis assay (Ames test) ive
			ouse Lymphoma ivation: Metabolic activation ve
			ster chromatid exchange assay Chinese hamster ovary cells ocal
		Test Type: C Result: negat	hromosomal aberration ive
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Ger	notoxicity in vivo	:	Test Type: Micron Species: Mouse Cell type: Bone m Application Route Result: equivocal	arrow
			Test Type: in vivo Species: Mouse Application Route Result: negative	assay : Intraperitoneal injection
	m cell mutagenicity- As- sment	:	Weight of evidenc cell mutagen.	e does not support classification as a germ
	<b>cinogenicity</b> classified based on availa	ble	information.	
<u>Cor</u>	nponents:			
Spe App		:	Rat inhalation (vapour 104 weeks OECD Test Guide negative	
oxy	tetracycline:			
Spe App	cies lication Route osure time	::	Mouse Oral 104 weeks negative	
Exp Res Tar	lication Route osure time		Rat Oral 103 weeks equivocal Adrenal gland, Pit The mechanism o mans.	uitary gland r mode of action may not be relevant in hu-
Car mer	cinogenicity - Assess- nt	:	Weight of evidenc cinogen	e does not support classification as a car-
-	productive toxicity / damage the unborn child			
Cor	nponents:			
	ane:			
Effe	cts on fertility	:		ned repeated dose toxicity study with the elopmental toxicity screening test : inhalation (gas)



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			Method: OECI Result: negativ	D Test Guideline 422 /e
Effect ment	s on foetal develop-	:	reproduction/c Species: Rat Application Rc	mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422 /e
Prona	an-2-ol:			
	s on fertility	:	Test Type: Tw Species: Rat Application Rc Result: negativ	
Effect ment	s on foetal develop-	:	Test Type: Em Species: Rat Application Ro Result: negativ	
Isobu	itane:			
	s on fertility	:	reproduction/c Species: Rat Application Rc	mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422 /e
Effect ment	s on foetal develop-	:	reproduction/c Species: Rat Application Ro	mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422
Propa	ano.			
	s on fertility	:	reproduction/c Species: Rat Application Rc	mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422 /e
Effect ment	s on foetal develop-	:	reproduction/c Species: Rat Application Rc	mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422 /e

oxytetracycline:



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Effect	s on fertility	:	Species: Rat Application Route Fertility: NOAEL: Result: No effects	eneration reproduction toxicity study e: Oral 18 mg/kg body weight s on fertility, No effect on reproduction capac- adverse effects were reported
Effect ment	s on foetal develop-	:	Species: Rat Application Route Embryo-foetal tox	vo-foetal development e: Oral kicity: LOAEL: 48 mg/kg body weight intation loss., Skeletal malformations
			Species: Rat Application Route General Toxicity Embryo-foetal tox Result: No terator	Maternal: LOAEL: 1.200 mg/kg body weight kicity: NOAEL: 1.500 mg/kg body weight
			Species: Mouse Application Route General Toxicity Embryo-foetal tox Result: No terator	Maternal: LOAEL: 1.325 mg/kg body weight kicity: NOAEL: 2.100 mg/kg body weight
			Species: Rabbit Application Route Embryo-foetal tox	/o-foetal development e: Intramuscular kicity: LOAEL: 41,5 mg/kg body weight intation loss., No foetal abnormalities
			Species: Dog Application Route Embryo-foetal tox	vo-foetal development e: Intramuscular kicity: LOAEL: 20,75 mg/kg body weight and visceral variations, Postimplantation loss.
Repro sessn	ductive toxicity - As- nent	:	Positive evidence human epidemiol	of adverse effects on development from ogical studies.
	<b>- single exposure</b> ause drowsiness or diz	zzine	ess.	
Comp	oonents:			
Butar	-			
Asses Rema		:		iness or dizziness. om similar materials



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Propa	an-2-ol:		
Asses	ssment	: May cause dro	owsiness or dizziness.
lsobu	itane:		
Asses	ssment	: May cause dr	owsiness or dizziness.
Propa			
Asses	ssment	: May cause dr	owsiness or dizziness.
	- repeated exposur		
	assified based on ava	ailable information.	
-	ated dose toxicity		
<u>Comp</u>	oonents:		
Butar			
Speci NOAE		: Rat : >= 9000 ppm	
	cation Route	: inhalation (ga	s)
	sure time	: 6 Weeks	
Metho	od	: OECD Test G	uideline 422
Propa	an-2-ol:		
Speci		: Rat	
NOAE		: 12,5 mg/l	
	cation Route	: inhalation (va : 104 Weeks	pour)
		. TO4 Weeks	
lsobu			
Speci		: Rat	
NOAE	cation Route	: >= 9000 ppm : inhalation (gas	s)
Expos	sure time	: 6 Weeks	5)
Metho		: OECD Test G	uideline 422
Propa	ane:		
Speci		: Rat	
NOAE	EL	: 7,214 mg/l	
	cation Route	: inhalation (gas	s)
Metho	sure time od	: 6 Weeks : OECD Test G	uideline 422
ovuto	tracvalina		
Speci	tracycline:	: Rat	
LOAE		: 198 mg/kg	
Applic	cation Route	: Oral	
Expos	sure time t Organs	: 13 Weeks	
Targe	t Organs	: Bone	advaraa offacta wara maranta '
Rema	IIKS	: INO SIGNIFICANT	adverse effects were reported
		16 / 2	23



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Expos	L ation Route sure time t Organs	: : : : : : : : : : : : : : : : : : : :	Mouse 7.990 mg/kg Oral 13 Weeks Bone No significant adv	erse effects were reported
Expos	L L cation Route sure time t Organs		Dog 125 mg/kg 250 mg/kg Oral 12 Months Testis Significant toxicity	observed in testing
Expos	EL		Rat 40 mg/kg 100 mg/kg Intraperitoneal 14 Days Kidney	
Not cl Exper	ation toxicity assified based on availa rience with human exp ponents:			
•	tracycline: ion	:	Symptoms: Gastro	pintestinal disturbance, tooth discoloration
Ingest	ion	:	Remarks: May ca	
SECTION	ion <b>12: Ecological infor</b>	: ma	Remarks: May ca	
SECTION 12.1 Toxic	ion <b>12: Ecological infor</b>	: ma	Remarks: May ca	
Ingest SECTION 12.1 Toxic <u>Comp</u> Propa	ion <b>12: Ecological infor</b>	: ma	Remarks: May ca	use birth defects. s promelas (fathead minnow)): 9.640 mg/l
Ingest SECTION 12.1 Toxic Comp Propa Toxici Toxici	ion <b>12: Ecological infor</b> <b>ity</b> <b>ponents:</b> <b>in-2-ol:</b> ty to fish	: ma	Remarks: May ca tion LC50 (Pimephale Exposure time: 96	use birth defects. s promelas (fathead minnow)): 9.640 mg/l s h agna (Water flea)): > 10.000 mg/l
Ingest SECTION 12.1 Toxic Comp Propa Toxici aquati	ion <b>12: Ecological infor</b> <b>ity</b> <b>ponents:</b> <b>in-2-ol:</b> ty to fish ty to daphnia and other	:	Remarks: May ca ttion LC50 (Pimephale Exposure time: 96 EC50 (Daphnia m Exposure time: 24	s promelas (fathead minnow)): 9.640 mg/l 5 h agna (Water flea)): > 10.000 mg/l I h nas putida): > 1.050 mg/l
Ingest SECTION 12.1 Toxic Comp Propa Toxici aquati Toxici aquati	ion <b>12: Ecological infor</b> <b>ity</b> <b>ponents:</b> <b>an-2-ol:</b> ty to fish ty to daphnia and other ic invertebrates	:	Remarks: May ca tion LC50 (Pimephale Exposure time: 96 EC50 (Daphnia m Exposure time: 24 EC50 (Pseudomo Exposure time: 16	s promelas (fathead minnow)): 9.640 mg/l 5 h agna (Water flea)): > 10.000 mg/l I h nas putida): > 1.050 mg/l

## SAFETY DATA SHEET



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Toxid aqua	city to daphnia and other tic invertebrates	:	Exposure time: 48 Method: OECD T	est Guideline 202 nagna (Water flea)): 669 mg/l 3 h
Toxic plant	city to algae/aquatic s	:	EC50 (Anabaena Exposure time: 72 NOEC (Anabaena Exposure time: 72	2 h a): 0,0031 mg/l
M-Fa icity)		:	10	
Τοχία	city to microorganisms	:	EC50 : 17,9 mg/l Exposure time: 3 Test Type: Respir Method: OECD T	ration inhibition
			NOEC : 0,2 mg/l Exposure time: 3 Test Type: Respir Method: OECD T	ration inhibition
	M-Factor (Chronic aquatic toxicity)		10	
12.2 Pers	sistence and degradabil	ity		
<u>Com</u>	ponents:			
Buta Biode	n <b>e:</b> egradability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials
	oan-2-ol:			
	egradability	•	Result: rapidly de	
BOD	/COD	:	BOD: 1.19 (BOD5 COD: 2.23 BOD/COD: 53 %	5)
	<b>utane:</b> egradability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials
Prop Biode	<b>bane:</b> egradability	:	Result: Readily bi	odegradable.



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I		Remarks: Basec	on data from similar materials
12.3 Bioad	ccumulative potential		
Com	oonents:		
Butar	ne:		
	on coefficient: n- ol/water	: log Pow: 2,89	
Propa	an-2-ol:		
	on coefficient: n- ol/water	: log Pow: 0,05	
Isobu			
	on coefficient: n- ol/water	: log Pow: 2,8	
Propa			
Partiti octan	on coefficient: n- ol/water	: log Pow: 2,36	
12.4 Mobi	-		
	ita available		
12.5 Resu	Its of PBT and vPvB a	ssessment	
Produ			
Asses	ssment	to be either pers	nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Othe	r adverse effects		
Produ	uct:		
	crine disrupting poten-	ered to have end REACH Article 5	hixture does not contain components consid- locrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
SECTION	I 13: Disposal consi	derations	
	e treatment methods		
Produ	ict aminated packaging	According to the are not product s Waste codes she discussion with t Do not dispose of	cordance with local regulations. European Waste Catalogue, Waste Codes specific, but application specific. buld be assigned by the user, preferably in he waste disposal authorities. of waste into sewer. erosol cans are sprayed completely empty

Empty containers should be taken to an approved waste han-

(including propellant)



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			Do not pressurize pose such contair of ignition. They n	cling or disposal. retain residue and can be dangerous. e, cut, weld, braze, solder, drill, grind, or ex- ners to heat, flame, sparks, or other sources nay explode and cause injury and/or death. becified: Dispose of as unused product.		
SECTION	I 14: Transport inform	nat	ion			
14.1 UN n	umber					
ADN		:	UN 1950			
ADR		:	UN 1950			
RID		:	UN 1950			
IMDG	i	:	UN 1950			
ΙΑΤΑ		:	UN 1950			
14.2 UN p	roper shipping name					
ADN		:	AEROSOLS			
ADR		:	AEROSOLS			
RID		:	: AEROSOLS			
IMDG	i	:	: AEROSOLS			
<b>II</b>			(oxytetracycline)			
ΙΑΤΑ		:	Aerosols, flamma	ble		
14.3 Trans	sport hazard class(es)					
ADN		:	2			
ADR		:	2			
RID		:	2			
IMDG	i	:	2.1			
ΙΑΤΑ	_	:	2.1			
14.4 Pack	ing group					
	ng group ification Code s	:	Not assigned by r 5F 2.1	egulation		
Class Label	ng group ification Code s el restriction code	:	Not assigned by r 5F 2.1 (D)	egulation		
<b>RID</b> Packi Class	ng group ification Code rd Identification Number	:	Not assigned by r 5F 23 2.1	egulation		



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Lab	king group	: : :	Not assigned by 1 2.1 F-D, S-U	regulation
Pac airci Pac	king instruction (LQ) king group	:	203 Y203 Not assigned by r Flammable Gas	regulation
Pac ger Pac	A (Passenger) king instruction (passen- aircraft) king instruction (LQ) king group els	:	203 Y203 Not assigned by r Flammable Gas	regulation
14.5 Env	vironmental hazards			
	ironmentally hazardous	:	yes	
<b>ADI</b> Env	<b>R</b> ironmentally hazardous	:	yes	
<b>RID</b> Env	ironmentally hazardous	:	yes	
<b>IMD</b> Mar	<b>G</b> ine pollutant	:	yes	
14.6 Spe	ecial precautions for use	er		

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.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks	:	Not applicable for product as supplied.
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## **SECTION 15: Regulatory information**

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

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

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## **Oxytetracycline Formulation**

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SECTION	N 16: Other informat	ion			
Othe	r information	:		nges have been made to the previous version the body of this document by two vertical	
Full t	ext of H-Statements				
H220			Extremely flamma	able das	
H225			2	liquid and vapour.	
H280				ler pressure; may explode if heated.	
H317		:		ergic skin reaction.	
H319		:	Causes serious e		
H336	5	:	May cause drows	iness or dizziness.	
H360	D	:	May damage the		
H400		:	Very toxic to aqua		
H410		:	Very toxic to aqua	atic life with long lasting effects.	
Full t	ext of other abbreviat	ions			
Aqua	tic Acute	:	Short-term (acute	e) aquatic hazard	
Aqua	tic Chronic	:		ic) aquatic hazard	
Eye I		:	Eye irritation		
	. Gas	:	Flammable gases		
Flam	•	:	Flammable liquid		
	s. Gas		Gases under pres		
Repr		:	Reproductive toxi		
	Sens.	÷	Skin sensitisation		
STO ZA B		:		gan toxicity - single exposure Regulations for Hazardous Chemical	
ZA D		•		I Exposure Indices	
ZA O	FI			Regulations for Hazardous Chemical	
240		•		onal Exposure Limits	
7A ()	EL / OEL-RL			oosure Limit Restricted limit - 8- hour expo-	
		•	sure or equivalen		
ZA O	EL / OEL- RL STEL/C	:	Occupational Exp	oosure Limit Restricted limit - Short term oc- ure limits / ceiling limits	
Wate Road ing o tion ( of the Europ asso cy So socia borat Trans	rways; ADR - Agreem l; AIIC - Australian Inve f Materials; bw - Body v EC) No 1272/2008; CM e German Institute for S bean Chemicals Agenc ciated with x% response chedule; ENCS - Existin ted with x% growth ration ory Practice; IARC - In sport Association; IBC -	ent o ntory weigh IR - 1 Stanc y; EC e; EL ng an te res terna Inter in Bu	concerning the Int of Industrial Chem nt; CLP - Classifica Carcinogen, Mutag lardisation; DSL - C-Number - Europe x - Loading rate as d New Chemical S sponse; GHS - GI tional Agency for rnational Code for	tional Carriage of Dangerous Goods by Inland ernational Carriage of Dangerous Goods by nicals; ASTM - American Society for the Test- ation Labelling Packaging Regulation; Regula- gen or Reproductive Toxicant; DIN - Standard Domestic Substances List (Canada); ECHA - ean Community number; ECx - Concentration ssociated with x% response; EmS - Emergen- Substances (Japan); ErCx - Concentration as- obally Harmonized System; GLP - Good La- Research on Cancer; IATA - International Air the Construction and Equipment of Ships car- ximal inhibitory concentration; ICAO - Interna-	

rying 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;



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NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

### Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data Sheet		eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

**Classification procedure:** 

## Classification of the mixture:

Aerosol 2	H223, H229	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 1A	H360D	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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.

### ZA / EN