

according to the Hazardous Products Regulations

Oxytetracycline Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
5.0	07/06/2024	671601-00020	Date of first issue: 05/12/2016

SECTION 1. IDENTIFICATION

Product name	:	Oxytetracycline Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Aerosols	:	Category 2
Eye irritation	:	Category 2A
Skin sensitization	:	Sub-category 1A
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - single exposure	:	Category 3
Simple Asphyxiant	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	 H223 Flammable aerosol. H229 Pressurised container: May burst if heated. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H360D May damage the unborn child. May displace oxygen and cause rapid suffocation

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Preca	utionary Statements	Prevention: P201 Obtain sp P202 Do not ha and understood P210 Keep awa and other ignitic P211 Do not sp P251 Do not pi P261 Avoid bre P264 Wash ski P271 Use only P272 Contamir the workplace. P280 Wear pro and face proted	pecial instructions before use. andle until all safety precautions have been read t. ay from heat, hot surfaces, sparks, open flames on sources. No smoking. oray on an open flame or other ignition source. erce or burn, even after use. eathing spray. n thoroughly after handling. outdoors or in a well-ventilated area. nated work clothing should not be allowed out of tective gloves, protective clothing, eye protection ction.
		Response: P302 + P352 IF P304 + P340 + and keep comfo unwell. P305 + P351 + for several minutor to do. Continue P308 + P313 IF P333 + P313 If tion. P337 + P313 If P362 + P364 T reuse.	ON SKIN: Wash with plenty of water. P312 IF INHALED: Remove person to fresh air ortable for breathing. Call a doctor if you feel P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and eas rinsing. exposed or concerned: Get medical attention. skin irritation or rash occurs: Get medical atten- eye irritation persists: Get medical attention. ake off contaminated clothing and wash it before
		Storage: P405 Store loc! P410 + P412 P tures exceeding	<pre>ked up. rotect from sunlight. Do not expose to tempera- g 50 °C (122 °F).</pre>
		Disposal: P501 Dispose d disposal plant.	of contents and container to an approved waste
Other None	hazards known.		

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Butane	Butyl hydride	106-97-8	>= 10 - < 30 *
Propan-2-ol	lsopropyl alco- hol	67-63-0	>= 10 - < 30 *



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	Isobutane	Prop	oane, 2- 1yl-	75-28-5		>= 10 - < 30 *
	Propane		ethylme-	74-98-6		>= 10 - < 30 *
	Oxytetracyclir	ne No o ble	data availa-	79-57-2		>= 5 - < 10 *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical
		advice.
If inhaled	:	If inhaled, remove to fresh air.
		If not breathing, give artificial respiration.
		n breatning is difficult, give oxygen.
In some of alkin contact		Get medical attention immediately.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water.
		Cet medical attention
		Weeh elething before rouse
		Thoroughly clean shoes before rouse
In case of eve contact		In case of contact, immediately flush ever with plenty of water
In case of eye contact	•	for at least 15 minutes
		If easy to do, remove contact lens, if worn
		Get medical attention
If swallowed		If swallowed DO NOT induce vomiting
ii Swallowed	•	Get medical attention
		Rinse mouth thoroughly with water
Most important symptoms		Gastrointestinal disturbance
and effects, both acute and	•	May cause an allergic skin reaction.
delaved		Causes serious eve irritation.
		May cause drowsiness or dizziness.
		May damage the unborn child.
		May displace oxygen and cause rapid suffocation.
		Gas reduces oxygen available for breathing.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,
		and use the recommended personal protective equipment
		when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.



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			If the temperature due to the high va	rises there is danger of the vessels bursting por pressure.
	Hazardous combustion prod- ucts	:	Carbon oxides	
	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.	
	Special protective equipment for fire-fighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SEC	TION 6. ACCIDENTAL RELE	ASI	EMEASURES	
	Personal precautions, protec- tive equipment and emer- gency procedures	:	Evacuate personn Remove all source Ventilate the area Use personal prot Follow safe handl protective equipm	tel to safe areas. es of ignition. ective equipment. ing advice (see section 7) and personal ent 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 of 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	:	Non-sparking tool Soak up with inert Suppress (knock of jet. 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 c determine which r Sections 13 and 1 certain local or national r	s should be used. absorbent material. down) gases/vapors/mists with a water spray 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





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Loca	al/Total ventilation	CONTROLS/F : If sufficient ve ventilation. If advised by a	PERSONAL PROTECTION section. ntilation is unavailable, use with local exhaust assessment of the local exposure potential, use
Adv	ice on safe handling	only in an area tion. Do not get on Avoid breathir Do not swallow Do not get in e Wash skin tho	a equipped with explosion-proof exhaust ventila- skin or clothing. ng spray. w. eyes. roughly after handling.
		Handle in according practice, base assessment Keep container Keep away from other ignition so Take precaution Take care to precomment.	ordance with good industrial hygiene and safety d on the results of the workplace exposure er tightly closed. om heat, hot surfaces, sparks, open flames and sources. No smoking. onary measures against static discharges. orevent spills, waste and minimize release to the
Con	ditions for safe storage	Do not spray of Store locked u Keep tightly cl Keep in a coo Store in accor Do not pierce Keep cool. Pro	on an open flame or other ignition source. p. osed. l, well-ventilated place. dance with the particular national regulations. or burn, even after use. btect from sunlight.
Mate	erials to avoid	: Do not store w Self-reactive s Organic perox Oxidizing age Flammable so Pyrophoric liq Pyrophoric so Self-heating s Substances at flammable gas Explosives Gases	vith the following product types: substances and mixtures ides nts lids uids lids ubstances and mixtures nd mixtures which in contact with water emit ses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Butane	106-97-8	TWA	1,000 ppm	CA AB OEL
		TWAEV	800 ppm	CA QC OEL
			1,900 mg/m ³	
		STEL	1,000 ppm	CA BC OEL
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	STEL	400 ppm	CA AB OEL

Ingredients with workplace control parameters



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				984 mg/m³		
			TWA	200 ppm	CA AB OEL	
				492 mg/m ³		
			TWA	200 ppm	CA BC OEL	
			STEL	400 ppm	CA BC OEL	
			TWAEV	200 ppm	CA QC OEL	
			STEV	400 ppm	CA QC OEL	
			TWA	200 ppm	ACGIH	
			STEL	400 ppm	ACGIH	
Isobu	tane	75-28-5	TWA	1,000 ppm	CA AB OEL	
			STEL	1,000 ppm	CA BC OEL	
			STEL	1,000 ppm	ACGIH	
Propa	ine	74-98-6	TWA	1,000 ppm	CA AB OEL	
			TWAEV	1,000 ppm	CA QC OEL	
				1,800 mg/m ³		
Oxyte	tracycline	79-57-2	TWA	500 µg/m3 (OEB	Internal	
				2)		
		Further inform	nation: DSEN			
			Wipe limit	100 µg/100 cm ²	Internal	

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Personal protective equipment

Respiratory protection Filter type Hand protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Self-contained breathing apparatus
Remarks	:	Take note that the product is flammable, which may impact the selection of hand protection.
Skin and body protection	:	Skin should be washed after contact.
Hygiene measures	:	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 containinated ciolining befole re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Aerosol containing a liquefied gas





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	Color	:	blue	
	Odor	:	solvent	
	Odor 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	:	-80 °C	
	Evaporation rate	:	No data available	
	Flammability (solid, gas)	:	Flammable aeros	ol.
	Flammability (liquids)	:	Not applicable	
	Upper explosion limit / Upper flammability limit	:	9.5 %(V)	
	Lower explosion limit / Lower flammability limit	:	1.8 %(V)	
	Vapor pressure	:	No data available	
	Relative vapor density	:	No data available	
	Relative density	:	No data available	
	Density	:	0.92 g/cm ³	
	Solubility(ies) Water solubility	:	No data available	
	Partition coefficient: n-	:	No data available	
	Autoignition temperature	:	No data available	
	Decomposition temperature	:	No data available	
	Viscosity Viscosity, kinematic	:	No data available	
	Explosive properties	:	Not explosive	
	Oxidizing properties	:	The substance of	mixture is not classified as oxidizing.
	Particle characteristics			





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Partic	e size	:	No data available	e
SECTION	10. STABILITY AND R	EAC	TIVITY	
React Chem Possil tions	ivity ical stability pility of hazardous reac-		Not classified as Stable under nor Flammable aero Vapors may form If the temperatur due to the high v Can react with st	a reactivity hazard. mal conditions. sol. n explosive mixture with air. e rises there is danger of the vessels bursting apor pressure. trong oxidizing agents.
Condi Incom Hazar produ	tions to avoid patible materials dous decomposition cts	:	Heat, flames and Oxidizing agents No hazardous de	ecomposition products are known.
SECTION	11. TOXICOLOGICAL I	NFO	ORMATION	
Inform Inhala Skin c Ingest Eye co Acute	nation on likely routes tion ontact ion ontact toxicity	of	exposure	
Not cl	assified based on availa	able	information.	
<u>Comp</u>	oonents:			
Acute	inhalation toxicity	:	LC50 (Rat): 5700 Exposure time: 19 Test atmosphere: Remarks: Based	00 ppm 5 min gas on data from similar materials
II Propa	ın-2-ol:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 25 Exposure time: 6 Test atmosphere:	mg/l h vapor
Acute	dermal toxicity	:	LD50 (Rabbit): >	5,000 mg/kg
Isobu Acute	tane: inhalation toxicity	:	LC50 (Rat): 5700 Exposure time: 1 Test atmosphere:	00 ppm 5 min gas





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Propar				
Acute in	nhalation toxicity	:	LC50 (Rat): > 800 Exposure time: 15 Test atmosphere:	000 ppm min gas
Oxytet	racycline:			
Acute c	oral toxicity	:	LD50 (Rat): 4,800	mg/kg
			LD50 (Mouse): 2,2 Remarks: Evidenc	240 mg/kg e of phototoxicity was observed
Acute in	nhalation toxicity	:	Remarks: No data	available
Acute c	lermal toxicity	:	Remarks: No data	available
Acute to adminis	oxicity (other routes of stration)	:	LD50 (Rat): 4,840 Application Route	mg/kg : Intramuscular
			LD50 (Mouse): 3,8 Application Route	500 mg/kg : Subcutaneous
Skin co Not clas <u>Compo</u>	orrosion/irritation ssified based on availa onents:	ble	information.	
Propar	n-2-ol:			
Species Result	5	:	Rabbit No skin irritation	
Oxytet Remark	racycline: <s< td=""><td>:</td><td>No data available</td><td></td></s<>	:	No data available	
Seriou Causes	s eye damage/eye irri s serious eye irritation.	tatio	on	
Compo	onents:			
Propar	n-2-ol:			
Species Result	5	:	Rabbit Irritation to eyes, r	eversing within 21 days
Oxytet	racycline:			
Remark	<s< td=""><td>:</td><td>No data available</td><td></td></s<>	:	No data available	
Respira	atory or skin sensitiza	atio	n	
Skin se May ca	ensitization	octio	n	
may ca	and an anorgio skin lee			



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Re s Not	spiratory sensitization	lable information.	
<u>Co</u>	mponents:		
Pro	pan-2-ol:		
Tes Roi	st Type utes of exposure	: Buehler Test : Skin contact	
Spe	ecies	: Guinea pig	uideline 406
Res	sult	: negative	
Oxy	ytetracycline:		
Tes	st Type sult	: Human repeat : Sensitizer	insult patch test (HRIPT)
Gei	rm cell mutagenicity		
Not	classified based on avai	lable information.	
<u>Co</u>	<u>mponents:</u>		
But	tane:	· Toot Turo: Po	storial reverse mutation assay (AMES)
Gei		Method: OECI Result: negati	D Test Guideline 471 ve
		Test Type: Ch Method: OECl Result: negati	romosome aberration test in vitro D Test Guideline 473 ve
Gei	notoxicity in vivo	: Test Type: Ma cytogenetic as Species: Pat	mmalian erythrocyte micronucleus test (in vivo say)
		Application Ro	bute: inhalation (gas)
		Method: OECI Result: negati	D Test Guideline 474 ve
		Remarks: Bas	ed on data from similar materials
Pro	ppan-2-ol:		
Gei	notoxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
Gei	notoxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negati	ammalian erythrocyte micronucleus test (in vivo ssay) se pute: Intraperitoneal injection ve
II			

Isobutane:

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Genotoxicity in vitro		:	 Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: Bacterial reverse mutation assay (AMES) 					
			Result: negative Remarks: Based on data from similar materials					
Geno	toxicity in vivo	:	: Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Rat Application Route: inhalation (gas) Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials					
Propa	ane:							
Geno	toxicity in vitro	:	Test Type: Bacter Result: negative Remarks: Based	rial reverse mutation assay (AMES) on data from similar materials				
Geno	toxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Rat Application Route Method: OECD T Result: negative Remarks: Based	nalian erythrocyte micronucleus test (in vivo /) e: inhalation (gas) est Guideline 474 on data from similar materials				
Oxyte	etracycline:							
Geno	toxicity in vitro	:	Test Type: Microb Result: negative	pial mutagenesis assay (Ames test)				
			Test Type: Mouse Metabolic activati Result: positive	e Lymphoma on: Metabolic activation				
			Test Type: sister Test system: Chir Result: equivocal	chromatid exchange assay nese hamster ovary cells				
			Test Type: Chron Result: negative	nosomal aberration				
Geno	toxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: equivocal	nucleus test narrow :: Oral				
II			Test Type: in vivo	assay				



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			Species: Mouse Application Route Result: negative	: Intraperitoneal injection			
Ge Ass	rm cell mutagenicity - sessment	:	: Weight of evidence does not support classification as a gerr cell mutagen.				
Ca Not	rcinogenicity t classified based on availa	ble	information.				
Co	mponents:						
Pro	opan-2-ol:						
Spe	ecies	:	Rat				
App	plication Route	:	inhalation (vapor)				
Me	thod	:	OECD Test Guide	eline 451			
Re	sult	:	negative				
Ox	ytetracycline:						
Spe	ecies	:	Mouse				
App	plication Route	÷	104 weeks				
Re	sult	:	negative				
Spe App Exp Re: Tar Rei	ecies olication Route oosure time sult rget Organs marks		Rat Oral 103 weeks equivocal Adrenal gland, Pit The mechanism o mans.	uitary gland r mode of action may not be relevant in hu-			
Ca me	rcinogenicity - Assess- nt	:	Weight of evidenc cinogen	e does not support classification as a car-			
Re Ma <u>Co</u>	productive toxicity y damage the unborn child <u>mponents:</u>						
	ects on fertility	:	Test Type: Combiner reproduction/dever Species: Rat Application Route Method: OECD To Result: negative	ned repeated dose toxicity study with the elopmental toxicity screening test : inhalation (gas) est Guideline 422			
Effe	ects on fetal development	:	Test Type: Combiner reproduction/dever Species: Rat Application Route	ned repeated dose toxicity study with the elopmental toxicity screening test : inhalation (gas)			



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			Method: OECD To Result: negative	est Guideline 422		
Propa	an-2-ol:					
Effect	s on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study		
Effect	s on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative			
Isobu	itane:					
Effect	s on fertility	:	Test Type: Comb reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test : inhalation (gas) est Guideline 422		
Effect	s on fetal development	:	Test Type: Comb reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test : inhalation (gas) est Guideline 422		
Prop	ane.					
Effect	is on fertility	:	Test Type: Comb reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test : inhalation (gas) est Guideline 422		
Effect	s on fetal development	:	Test Type: Comb reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test :: inhalation (gas) est Guideline 422		
Οχντ	etracycline:					
Effect	s on fertility	:	Test Type: Two-g Species: Rat Application Route Fertility: NOAEL: Result: No effects capacity., No sign	eneration reproduction toxicity study : Oral 18 mg/kg body weight s on fertility., No effect on reproduction ificant adverse effects were reported		





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Effect	ts on fetal development	:	Test Type: Embry Species: Rat Application Route Embryo-fetal toxic Result: Postimpla Test Type: Embry Species: Rat Application Route General Toxicity I Embryo-fetal toxic Result: No teratog Remarks: Matern Test Type: Embry Species: Mouse Application Route General Toxicity I Embryo-fetal toxic Result: No teratog Remarks: Matern Test Type: Embry Species: Rabbit Application Route Embryo-fetal toxic Result: No teratog Remarks: Matern Test Type: Embry Species: Rabbit Application Route Embryo-fetal toxic Result: Postimpla Test Type: Embry Species: Dog	vo-fetal development e: Oral city.: LOAEL: 48 mg/kg body weight ntation loss., Skeletal malformations. vo-fetal development e: Oral Maternal: LOAEL: 1,200 mg/kg body weight city.: NOAEL: 1,500 mg/kg body weight genic effects. al toxicity observed. vo-fetal development e: Oral Maternal: LOAEL: 1,325 mg/kg body weight city.: NOAEL: 2,100 mg/kg body weight genic effects. al toxicity observed. vo-fetal development e: Intramuscular city.: LOAEL: 41.5 mg/kg body weight ntation loss., No fetal abnormalities. vo-fetal development
Popr	aduative tovicity.		Embryo-fetal toxic Result: Skeletal a loss.	city.: LOAEL: 20.75 mg/kg body weight nd visceral variations ., Postimplantation
sessr	nent	:	human epidemiol	ogical studies.
STOT May o May o	F-single exposure cause drowsiness or diz displace oxygen and cau	zine Ise I	ss. rapid suffocation.	
Com	ponents:			
Buta Asses Rema	ne: ssment arks	:	May cause drows Based on data fro	iness or dizziness. om similar materials
Prop Asses	an-2-ol: ssment	:	May cause drows	iness or dizziness.



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Isobut	ane:			
Asses	sment	:	May cause drows	iness or dizziness.
Propa	ne:			
Asses	sment	:	May cause drows	iness or dizziness.
STOT	repeated exposure			
Not cla	assified based on avail	able	information.	
Repea	ited dose toxicity			
Comp	onents:			
Butan	e:		Det	
NOAE	L	:	>= 9000 ppm	
Applica	ation Route	:	inhalation (gas)	
Metho	d	:	OECD Test Guide	eline 422
Brono	n 2 olu			
Specie	95	:	Rat	
NOAE	L J	:	12.5 mg/l	
Applica Expos	ation Route ure time	:	104 Weeks	
Isobut	ane:		Det	
NOAE	L	:	>= 9000 ppm	
Applica	ation Route	:	inhalation (gas)	
Metho	d	:	OECD Test Guide	eline 422
Duana				
Propa IISpecie	ne:		Rat	
NOAE	L	:	7.214 mg/l	
Applica	ation Route	:	inhalation (gas) 6 Weeks	
Metho	d	:	OECD Test Guide	eline 422
Oxvte	tracvcline:			
Specie	es	:	Rat	
	- ation Route	:	198 mg/kg Oral	
Expos	ure time	:	13 Weeks	
Target Remai	Organs ks	:	Bone No significant adv	verse effects were reported
			Mouse	
LOAE	-	:	7,990 mg/kg	





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Applica Exposu Target Remark	tion Route ire time Organs ‹s	:	Oral 13 Weeks Bone No significant adv	verse effects were reported
Species NOAEL LOAEL Applica Exposu Target Remark	s tion Route time Organs s		Dog 125 mg/kg 250 mg/kg Oral 12 Months Testis Significant toxicity	<i>r</i> observed in testing
Species NOAEL LOAEL Applica Exposu Target	s tion Route ure time Organs		Rat 40 mg/kg 100 mg/kg Intraperitoneal 14 Days Kidney	

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Oxytetracycline:

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Ingestion
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: Symptoms: Gastrointestinal disturbance, tooth discoloration Remarks: May cause birth defects.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Propan-2-ol:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l Exposure time: 96 h			
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h			
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16 h			
Oxytetracycline:					
Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 110 mg/l Exposure time: 96 h Method: OECD Test Guideline 203			
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 621 mg/l			





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aquati	c invertebrates		Exposure time: 48 Method: OECD T	3 h est Guideline 202
			EC50 (Daphnia m Exposure time: 48 Method: OECD T	nagna (Water flea)): 669 mg/l 3 h est Guideline 202
Toxicit plants	y to algae/aquatic	:	EC50 (Anabaena Exposure time: 72): 0.032 mg/l 2 h
			NOEC (Anabaena Exposure time: 72	a): 0.0031 mg/l 2 h
Toxicit	ty to microorganisms	:	EC50: 17.9 mg/l Exposure time: 3 Test Type: Respin Method: OECD T	h ration inhibition est Guideline 209
			NOEC: 0.2 mg/l Exposure time: 3 Test Type: Respin Method: OECD T	h ration inhibition est Guideline 209
Persis	stence and degradabi	lity		
<u>Comp</u>	onents:			
Butan Biodeç	e: gradability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials
Propa	n-2-ol:			
Biodeg	gradability	:	Result: rapidly de	gradable
BOD/C	COD	:	BOD: 1,19 (BOD5 COD: 2,23 BOD/COD: 53 %	5)
Isobut	tane:			
Biodeg	gradability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials
Propa	ne:			
Biodeg	gradability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials



according to the Hazardous Products Regulations

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Bioaccumulative potential				
Compo	onents:			
Butane):			
Partitio octanol	n coefficient: n- /water	:	log Pow: 2.89	
Propar	1-2-ol:			
Partitio octanol	n coefficient: n- /water	:	log Pow: 0.05	
Isobuta	ane:			
Partitio octanol	n coefficient: n- /water	:	log Pow: 2.8	
Propar	ne:			
Partitio octanol	n coefficient: n- /water	:	log Pow: 2.36	
Mobilit	y in soil			
No data	a available			
Other a	adverse effects			
No data	a available			

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	 Please ensure aerosol cans are sprayed completely empty (including propellant) Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels		UN 1950 AEROSOLS 2.1 Not assigned by regulation 2.1
Labels	:	2.1
Environmentally hazardous	:	yes

IATA-DGR

according to the Hazardous Products Regulations



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UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)			UN 1950 Aerosols, flammal 2.1 Not assigned by r Flammable Gas 203 203	ble egulation
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant		:	UN 1950 AEROSOLS (Oxytetracycline) 2.1 Not assigned by r 2.1 F-D, S-U yes	egulation

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

TDG

UN number	:	UN 1950
Proper shipping name	:	AEROSOLS
Class	:	2.1
Packing group	:	Not assigned by regulation
Labels	:	2.1
ERG Code	:	126
Marine pollutant	:	yes(Oxytetracycline)

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

The ingredients of this product are reported in the following inventories:					
AICS	:	not determined			
DSL	:	not determined			
IECSC	÷	not determined			

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

according to the Hazardous Products Regulations



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				chold Limit Values (TLV)
ACGIH BEI			ACGIH - BIOlOgica	I Exposure Indices (BEI)
CA AB OEL		:	Canada. Alberta, (2: OEL)	Occupational Health and Safety Code (table
CA BC	OEL	:	Canada. British C	olumbia OEL
CA QC	OEL	:	Québec. Regulation ty, Schedule 1, Pa	on respecting occupational health and safe- int 1: Permissible exposure values for air-
			borne contaminan	ts
ACGIH	/ TWA	:	8-hour, time-weigl	nted average
ACGIH	/ STEL	:	Short-term exposit	ure limit
CA AB	OEL / TWA	:	8-hour Occupation	nal exposure limit
CA AB	OEL / STEL	:	15-minute occupa	tional exposure limit
CA BC	OEL / TWA	:	8-hour time weigh	ted average
CA BC	OEL / STEL	:	short-term exposu	re limit
CA QC	OEL / TWAEV	:	Time-weighted av	erage exposure value
CA QC	OEL / STEV	:	Short-term exposi	ure value

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

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

Revision Date

07/06/2024



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Date format : mm/dd/yyyy

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.

CA / Z8