

Vers 3.1	ion	Revision Date: 28.09.2024	-	S Number: 3818-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
Sect	tion 1: lo	dentification			
	Produc	t identifier	:	Oxytetracycline /	Diclofenac Liquid Formulation
	Recom	mended use of the ch	nemi	ical and restriction	ons on use
		nended use ions on use	:	Veterinary produce Not applicable	ct
	Manufa	cturer or supplier's d	letai	ls	
	Compar	ny	:	MSD	
	Address	3	:	50 Tuas West Dr Singapore - Sing	
	Telepho	one	:	+1-908-740-4000)
	Emerge	ncy telephone number	:	65 6697 2111 (24	4/7/365)

: EHSDATASTEWARD@msd.com

Section 2: Hazard identification

E-mail address

Classification of the substance or mixture

Serious eye damage/eye irri- tation	:	Category 2
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1A
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS Label elements, including precautionary statements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction.



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		H360FD May o	serious eye irritation. damage fertility. May damage the unborn child. ic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not h and understoo P261 Avoid bro P264 Wash sk P272 Contami the workplace. P273 Avoid rel P280 Wear pro	eathing mist or vapours. in thoroughly after handling. nated work clothing should not be allowed out of
		P305 + P351 + for several min easy to do. Co P308 + P313 I attention. P333 + P313 I vice/ attention. P337 + P313 I tention.	F exposed or concerned: Get medical advice/ f skin irritation or rash occurs: Get medical ad- f eye irritation persists: Get medical advice/ at- Take off contaminated clothing and wash it befor
		Storage: P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-Pyrrolidone	616-45-5	>= 30 -< 50
oxytetracycline	79-57-2	>= 20 -< 25
Benzyl alcohol	100-51-6	>= 1 -< 10



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Magnesium oxide	1309-48-4	>= 1 -< 10
Sodium [2-[(2,6-	15307-79-6	>= 0.25 -< 1
dichlorophenyl)amino]phenyl]acetate		
Sodium hydroxymethanesulphinate	149-44-0	>= 0.1 -< 1

Section 4: First-aid measures

Description of necessary first-aid measures

General advice	:	vice immediately.
		When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water.
		Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.
		Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water 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. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms	and	effects, both acute and delayed
Risks	:	May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility. May damage the unborn child.
Protection of first-aiders	:	
Indication of any immediate	e me	edical attention and special treatment needed
Treatment	:	Treat symptomatically and supportively.
ction 5: Fire-fighting measure	es	

Section 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.



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Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.				
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)				
Special protective actions for fire-fighters						
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.				
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.

Section 6: Accidental release measures

	quipment and emergency procedures Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions 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 containn	
Methods for cleaning up :	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.



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Section 7: Handling and storage

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.
Advice on safe handling :	Do not get on skin or clothing. Avoid breathing mist or vapours. 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 as- sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the
Hygiene measures :	 environment. 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.
Conditions for safe storage, in	cluding any incompatibilities
Conditions for safe storage :	Keep in properly labelled 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:

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	

Strong oxidizing agents



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oxytetracycline	79-57-2	TWA	500 µg/m3 (OEB 2)	Internal	
	Further information: DSEN				
		Wipe limit	100 µg/100 cm ²	Internal	
Magnesium oxide	1309-48-4	PEL (long term) (Fumes)	10 mg/m3	SG OEL	
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH	
Sodium [2-[(2,6- dichloro- phenyl)amino]phenyl]acetate	15307-79-6	TWA	100 µg/m3 (OEB 2)	Internal	
	Further inform	ation: Skin	·		
control measures	technologies to control airborne concentrations (e.g., d less quick connections). All engineering controls should be implemented by faci design and operated in accordance with GMP principle protect products, workers, and the environment. Laboratory operations do not require special containme				
Individual protection measure	es, such as pers	onal protective	equipment (PPE)		
Eye/face protection	Wear safety g If the work en mists or aeros Wear a faces	lasses with side vironment or act sols, wear the ap hield or other ful	e shields or goggles. tivity involves dusty c ppropriate goggles. I face protection if the the face with dusts, m	ere is a	
Skin protection Respiratory protection	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type				
Hand protection Material	Chemical-res	istant gloves			

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	light brown
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	8.3 - 9.0



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				(as aqueous solu	ition)
	Melting	point/freezing point	:	No data available	3
	Initial b range	oiling point and boiling	:	No data available	2
	Flash p	ooint	:	No data available)
	Evapor	ation rate	:	No data available)
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	1.05 - 1.18 g/cm ³	1
	Solubili Wat	ty(ies) er solubility	:	soluble	
		n coefficient: n-	:	No data available)
	octanol Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi	ty cosity, kinematic		47.62 mm2/s	
			•		
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available)
	Particle Particle	e characteristics e size	:	Not applicable	



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Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	::	
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Oxidizing agents

Section 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
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Components:

2-Pyrrolidone:	
Acute oral toxicity :	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox- icity
Acute dermal toxicity :	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
oxytetracycline:	
Acute oral toxicity :	LD50 (Rat): 4,800 mg/kg
	LD50 (Mouse): 2,240 mg/kg Remarks: Evidence of phototoxicity was observed
Acute inhalation toxicity :	Remarks: No data available



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			LD50 (Mouse): Application Rou	3,500 mg/kg te: Subcutaneous
Benzy	/l alcohol:			
-	oral toxicity	:	LD50 (Rat): 1,2	00 mg/kg
Acute	inhalation toxicity	:		4 h
Magn	esium oxide:			
Acute	oral toxicity	:	Assessment: Thicity	,000 mg/kg Test Guideline 423 ne substance or mixture has no acute oral to d on data from similar materials
Acute	inhalation toxicity	:		4 h
Sodiu	ım [2-[(2,6-dichlorophe	nvl)aminolphenvl];	acetate:
	oral toxicity	:	LD50 (Rat): 55	
			LD50 (Mouse):	170 - 389 mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 97 Application Rou	
			LD50 (Mouse): Application Rou	
Sodiu	Im hydroxymethanesul	lphi	inate:	
Acute	oral toxicity	:		,000 mg/kg Test Guideline 423 ne substance or mixture has no acute oral to
Acute	dermal toxicity	:		,000 mg/kg Test Guideline 402 ne substance or mixture has no acute derma



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Skin corrosion/irritation Not classified based on available information. **Components:** 2-Pyrrolidone: Species Rabbit : Method **OECD** Test Guideline 404 : Result No skin irritation • oxytetracycline: Remarks No data available : Benzyl alcohol: **Species** : Rabbit Method : **OECD** Test Guideline 404 Result : No skin irritation Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate: Result : irritating Sodium hydroxymethanesulphinate: **Species** Rat ٠ No skin irritation Result ٠ Serious eye damage/eye irritation Causes serious eye irritation. **Components:** 2-Pyrrolidone: Species Rabbit : Result Irritation to eyes, reversing within 7 days : oxytetracycline: Remarks No data available : **Benzyl alcohol:** Species Rabbit : Result Irritation to eyes, reversing within 21 days : Method : **OECD Test Guideline 405**

Magnesium oxide:

Species

Rabbit

:



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Result	:	No eye irritation
Method	:	OECD Test Guideline 405
Remarks	:	Based on data from similar materials

Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:

Result		Mild eye irritation
Nesul	•	wind eye initation

Sodium hydroxymethanesulphinate:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

2-Pyrrolidone:

z-i ynolidone.		
Test Type Exposure routes Species Method Result Remarks	· · · · · · · · · · · · · · · · · · ·	Local lymph node assay (LLNA) Skin contact Mouse OECD Test Guideline 429 negative Based on data from similar materials
oxytetracycline: Test Type Result	:	Human repeat insult patch test (HRIPT) Sensitiser
Benzyl alcohol:		
Test Type Exposure routes Species Result	: : :	Human repeat insult patch test (HRIPT) Skin contact Humans positive
Assessment	:	Probability or evidence of low to moderate skin sensitisation rate in humans
Magnesium oxide:		
Test Type Exposure routes Species	: : :	Maximisation Test Skin contact Guinea pig



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Meth Resu		: OECD Test Guideline 406 : negative
Rem		: Based on data from similar materials
	ium hydroxymethan	•
	Type osure routes	: Maximisation Test : Skin contact
Spec		: Guinea pig
Meth Resu		: OECD Test Guideline 406 : negative
	n cell mutagenicity	
Not o	classified based on av	ailable information.
<u>Com</u>	ponents:	
-	rrolidone:	
Geno	otoxicity 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
		Remarks: Based on data from similar materials
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
Gene	otoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
		Species: Mouse Application Route: Intraperitoneal injection
		Method: OECD Test Guideline 474 Result: negative
oxyt	etracycline:	
-	otoxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test) Result: negative
		Test Type: Mouse Lymphoma Metabolic activation: Metabolic activation Result: positive
		Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Result: equivocal
		Test Type: Chromosomal aberration



	Result:	negative
Genotoxicity in vivo		be: Micronucleus test : Mouse e: Bone marrow ion Route: Oral equivocal
	Species Applicat	ion Route: Intraperitoneal injection
cell mutagenicity - sment		of evidence does not support classification as a germ agen.
l alcohol:		
oxicity in vitro		be: Bacterial reverse mutation assay (AMES) negative
oxicity in vivo	cytogen Species Applicat	ion Route: Intraperitoneal injection
esium oxide:		
oxicity in vitro	Method: Result:	be: Bacterial reverse mutation assay (AMES) OECD Test Guideline 471 negative s: Based on data from similar materials
	Method: Result:	be: Chromosome aberration test in vitro OECD Test Guideline 473 negative s: Based on data from similar materials
	Method: Result:	be: In vitro mammalian cell gene mutation test OECD Test Guideline 476 negative s: Based on data from similar materials
m [2-[(2,6-dichlorop oxicity in vitro	: Test Typ	be: Bacterial reverse mutation assay (AMES)
	Test Ty	be: Mouse Lymphoma
	cell mutagenicity - sment I alcohol: oxicity in vitro oxicity in vitro esium oxide: oxicity in vitro	Species Cell type Applicat Result of Species Applicat Result of Species Applicat Result of Cell mutagenicity - : Weight of cell muta sent : : Test Type Result of Species Applicat Result of Result of Result



rsion I	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.04.20241313818-00020Date of first issue: 20.02.2017		
Geno	toxicity in vivo	: Test Type: Chromosomal aberration Species: CHO Result: negative		
Sodiı	ım hydroxymethane	sulphinate:		
	toxicity 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		
Geno	toxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: positive		
	cell mutagenicity -	: Positive result(s) from in vivo mammalian somatic cell mo genicity tests.		
	nogenicity			
	assified based on ava conents:	llable information.		
Speci Applic	cation Route sure time t	 Mouse Ingestion 18 month(s) negative Based on data from similar materials 		
oxyte	tracycline:			
Speci Applic	es cation Route sure time	Mouse Oral 104 weeks negative		
Expos Resul	cation Route sure time t t Organs	Rat Oral 103 weeks equivocal Adrenal gland, Pituitary gland The mechanism or mode of action may not be relevant in he mans.		



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Carcir ment	nogenicity - Assess-	:	Weight of evider cinogen	nce does not support classification as a car-
Bonz	yl alcohol:			
Speci			Mouse	
•	cation Route	:	Ingestion	
	sure time	:	103 weeks	
Metho		:	OECD Test Gui	deline 151
Resul		:	negative	
Magn	esium oxide:			
Speci	es	•	Mouse	
	cation Route	÷	Ingestion	
	sure time	:	96 weeks	
Resul		:	negative	
Rema	arks	:		rom similar materials
Sodiı	um [2-[(2,6-dichloroph	enyl)amino]phenyl]a	icetate:
Speci	es	:	Rat	
	cation Route	:	Oral	
Expos	sure time	:	2 Years	
Resul	lt	:	negative	
Speci	es	:	Mouse	
	cation Route	:	Oral	
	sure time	:	2 Years	
Resul	lt	:	negative	
Repro	oductive toxicity			
May c	damage fertility. May da	ımag	e the unborn child	d.
May c <u>Comp</u>	damage fertility. May da ponents:	amag	e the unborn chil	d.
May c <u>Comr</u> 2-Pyr	damage fertility. May da <u>ponents:</u> rolidone:	-		
May c <u>Comr</u> 2-Pyr	damage fertility. May da ponents:	amag :	Test Type: One-	d. -generation reproduction toxicity study
May c <u>Comr</u> 2-Pyr	damage fertility. May da <u>ponents:</u> rolidone:	-	Test Type: One- Species: Rat	-generation reproduction toxicity study
May c <u>Comr</u> 2-Pyr	damage fertility. May da <u>ponents:</u> rolidone:	-	Test Type: One- Species: Rat Application Rou	-generation reproduction toxicity study
May c <u>Comr</u> 2-Pyr	damage fertility. May da <u>ponents:</u> rolidone:	-	Test Type: One- Species: Rat Application Rou Result: positive	-generation reproduction toxicity study te: Ingestion
May c <u>Comr</u> 2-Pyr	damage fertility. May da <u>ponents:</u> rolidone:	-	Test Type: One- Species: Rat Application Rou Result: positive	-generation reproduction toxicity study
May c <u>Comr</u> 2-Pyr Effect	damage fertility. May da <u>ponents:</u> rolidone:	-	Test Type: One- Species: Rat Application Rou Result: positive Remarks: Based Test Type: Emb	-generation reproduction toxicity study te: Ingestion
May c <u>Comr</u> 2-Pyr Effect	damage fertility. May da <u>ponents:</u> rolidone: is on fertility	-	Test Type: One- Species: Rat Application Rou Result: positive Remarks: Based Test Type: Emb Species: Rat	-generation reproduction toxicity study te: Ingestion d on data from similar materials ryo-foetal development
May c <u>Comr</u> 2-Pyr Effect	damage fertility. May da <u>ponents:</u> rolidone: is on fertility	-	Test Type: One- Species: Rat Application Rou Result: positive Remarks: Based Test Type: Emb Species: Rat Application Rou	-generation reproduction toxicity study te: Ingestion d on data from similar materials ryo-foetal development
May c <u>Comr</u> 2-Pyr Effect	damage fertility. May da <u>ponents:</u> rolidone: is on fertility	-	Test Type: One- Species: Rat Application Rou Result: positive Remarks: Based Test Type: Emb Species: Rat	-generation reproduction toxicity study te: Ingestion d on data from similar materials ryo-foetal development
May c <u>Comr</u> 2-Pyr Effect Effect ment	damage fertility. May da <u>conents:</u> rolidone: is on fertility	-	Test Type: One- Species: Rat Application Rou Result: positive Remarks: Based Test Type: Emb Species: Rat Application Rou Result: positive	-generation reproduction toxicity study te: Ingestion d on data from similar materials ryo-foetal development
May c <u>Comr</u> 2-Pyr Effect Effect ment	damage fertility. May da <u>conents:</u> rolidone: is on fertility is on foetal develop- oductive toxicity - As-	:	Test Type: One- Species: Rat Application Rou Result: positive Remarks: Based Test Type: Emb Species: Rat Application Rou Result: positive Clear evidence	-generation reproduction toxicity study te: Ingestion d on data from similar materials ryo-foetal development te: Ingestion



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oxyte	etracycline:		
-	ts on fertility	Species: Rat Application Ro Fertility: NOAE Result: No effe	o-generation reproduction toxicity study oute: Oral EL: 18 mg/kg body weight ects on fertility, No effect on reproduction capac- ant adverse effects were reported
Effect ment	ts on foetal develop-	Species: Rat Application Ro Embryo-foetal	ibryo-foetal development oute: Oral toxicity: LOAEL: 48 mg/kg body weight iplantation loss., Skeletal malformations
		Species: Rat Application Ro General Toxici Embryo-foetal Result: No tera	ubryo-foetal development oute: Oral ity Maternal: LOAEL: 1,200 mg/kg body weight toxicity: NOAEL: 1,500 mg/kg body weight atogenic effects ernal toxicity observed.
		Species: Mous Application Ro General Toxici Embryo-foetal Result: No tera	
		Species: Rabb Application Ro Embryo-foetal	ibryo-foetal development bit bute: Intramuscular toxicity: LOAEL: 41.5 mg/kg body weight iplantation loss., No foetal abnormalities
		Species: Dog Application Ro Embryo-foetal	ubryo-foetal development oute: Intramuscular toxicity: LOAEL: 20.75 mg/kg body weight al and visceral variations, Postimplantation loss.
Repro sessn	oductive toxicity - As- nent		nce of adverse effects on development from niological studies.
Benz	yl alcohol:		
	ts on fertility	: Test Type: Fer Species: Rat	rtility/early embryonic development



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		Application Rou Result: negative Remarks: Base				
Effec ment	ts on foetal develop-	Species: Mouse Application Rou	Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative			
Маді	nesium oxide:					
-	ts on fertility	reproduction/de Species: Rat Application Rou Method: OECD Result: negative	Test Guideline 422			
Effec ment	ts on foetal develop-	reproduction/de Species: Rat Application Rou Method: OECD Result: negative	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials			
Sodi	um [2-[(2,6-dichloroph	envl)aminolphenvl]	acetate:			
	ets on fertility	: Test Type: Fert Species: Rat, n Application Rot	ility nale and female ute: Oral L: 4 mg/kg body weight			
Effec ment	ts on foetal develop-					
			t			
Repr sessi	oductive toxicity - As- ment	: Suspected of d	amaging the unborn child.			
Sodi	um hydroxymethanes	ulphinate:				
Effec	Effects on fertility :		Test Type: Combined repeated dose toxicity study with the			



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			Species: Rat Application Rou	Test Guideline 422
Effect: ment	s on foetal develop-	:	Species: Rat Application Rou	oryo-foetal development ite: Ingestion Test Guideline 414
Repro sessm	ductive toxicity - As- nent	:	Some evidence animal experim	of adverse effects on development, based on ents.
STOT Not cl	assified based on avai - repeated exposure assified based on avai bonents:	;		
Targe	m [2-[(2,6-dichloroph t Organs sment	henyl) : :	Gastrointestina	acetate: tract, Blood, lymphatic system, Liver, Prostate e to organs through prolonged or repeated
Repea	ated dose toxicity			
Comp	onents:			
2-Pyr	rolidone:			
	EL ation Route sure time	:	Rat 207 mg/kg Ingestion 3 Months OECD Test Gu	ideline 408
oxyte	tracycline:			
Specie LOAE Applic Expos	es L ation Route sure time t Organs		Rat 198 mg/kg Oral 13 Weeks Bone No significant a	dverse effects were reported
Specie LOAE Applic		:	Mouse 7,990 mg/kg Oral	



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Expos	sure time	: 13 Weeks			
Targe	t Organs	: Bone			
Rema	urks	: No significant a	adverse effects were reported		
Speci		: Dog			
NOAE LOAE		: 125 mg/kg			
	ation Route	: 250 mg/kg : Oral			
	sure time	: 12 Months			
	t Organs	: Testis			
Rema			city observed in testing		
Speci		: Rat			
NOAE		: 40 mg/kg			
LOAE		: 100 mg/kg			
	cation Route	: Intraperitoneal			
	sure time t Organs	: 14 Days : Kidney			
rarge	a organs	. Runey			
	yl alcohol:				
Speci		: Rat			
NOAE		: 1.072 mg/l			
	cation Route	: inhalation (dust	t/mist/fume)		
Metho	sure time		: 28 Days : OECD Test Guideline 412		
mound		. 0200 1000 00			
-	esium oxide:				
Speci		: Rat			
NOAE		: >= 1,000 mg/kg	9		
	cation Route	: Ingestion : 28 Days			
Metho	sure time		ideline 407		
Rema			: OECD Test Guideline 407: Based on data from similar materials		
•					
Sodit Speci		bhenyl)amino]phenyl] : Rat	acetate:		
LOAE		: 0.25 mg/kg			
	ation Route	: Oral			
Expos	sure time	: 98 w			
Targe	t Organs	: Gastrointestina	I tract, Blood, lymphatic system, Liver, Prosta		
Speci		: Dog			
LOAE		: 1 mg/kg			
	cation Route sure time	: Oral : 12 w			
	t Organs	: Blood			
Speci	es	: Baboon			
NOAE		: 0.5 mg/kg			
		5 5			



/ersion 3.1	Revision Date: 28.09.2024		OS Number: 13818-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
Expo Targe	EL cation Route sure time et Organs otoms	:	5 mg/kg Oral 52 w Gastrointestinal constipation, Dia	
Sodi	um hydroxymethanes	ulph	inate:	
Spec NOAI Appli	ies EL cation Route sure time		Rat 600 mg/kg Ingestion 13 Weeks OECD Test Guid	leline 408
-	ration toxicity lassified based on avail	lable	information.	
Expe	rience with human ex	posi	ire	
Com	ponents:			
oxyte	etracycline:			
Inges	stion	:		rointestinal disturbance, tooth discoloration ause birth defects.
Sodi	um [2-[(2,6-dichloroph	nenyl)amino]phenyl]a	cetate:
Inges	tion	:		ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties,
ection 1	2: Ecological information	tion		
Toxic	city			
<u>Com</u>	ponents:			
2-Руі	rrolidone:			
Toxic	ity to fish	:	Exposure time: 9	o (zebra fish)): > 4,600 - 10,000 mg/l /6 h Fest Guideline 203
	ity to daphnia and othe tic invertebrates	r:	EC50 (Daphnia Exposure time: 4	nagna (Water flea)): > 500 mg/l 8 h
Toxic plants	ity to algae/aquatic s	:	ErC50 (Desmod Exposure time: 7	esmus subspicatus (green algae)): > 500 mg/l '2 h
			EC10 (Desmode Exposure time: 7	smus subspicatus (green algae)): 22.2 mg/l ′2 h

Toxicity to microorganisms : EC50: > 1,000 mg/l



/ersion 3.1	Revision Date: 28.09.2024	-	9S Number: 13818-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
			Exposure time: Method: OECD	30 min Test Guideline 209
oxytet	racycline:			
Toxicity	y to fish	:	Exposure time:	atipes (Japanese medaka)): 110 mg/l 96 h Test Guideline 203
	Toxicity to daphnia and other aquatic invertebrates		Exposure time:	magna (Water flea)): 621 mg/l 48 h Test Guideline 202
			Exposure time:	magna (Water flea)): 669 mg/l 48 h Test Guideline 202
Toxicity plants	y to algae/aquatic	:	EC50 (Anabaen Exposure time:	
			NOEC (Anabae Exposure time:	na): 0.0031 mg/l 72 h
	tor (Acute aquatic tox-	:	10	
	tor (Chronic aquatic	:	10	
toxicity Toxicit <u>y</u>	') y to microorganisms	:		
				3 h biration inhibition Test Guideline 209
Benzy	l alcohol:			
•	y to fish	:	LC50 (Pimephal Exposure time:	es promelas (fathead minnow)): 460 mg/l 96 h
	y to daphnia and other c invertebrates	:	Exposure time:	magna (Water flea)): 230 mg/l 48 h Test Guideline 202
Toxicit <u>y</u> plants	y to algae/aquatic	:	mg/l Exposure time:	irchneriella subcapitata (green algae)): 77 72 h Test Guideline 201



ersion 1	Revision Date: 28.09.2024		OS Number: 13818-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
. 1	20.09.2024	13	13018-00020	Date of hist issue. 20.02.2017
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 310 2 h Fest Guideline 201
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 51 mg/l 1 d Fest Guideline 211
Magn	nesium oxide:			
Toxic	ity to fish	:	Exposure time: 9	es promelas (fathead minnow)): > 100 mg/l 6 h on data from similar materials
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h on data from similar materials
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: 7 Test substance: Method: OECD 1	chneriella subcapitata (green algae)): > 10 2 h Water Accommodated Fraction Fest Guideline 201 on data from similar materials
Toxic	ity to microorganisms	:		
Sodiu	um [2-[(2,6-dichlorophe	nyl)amino]phenyl]a	cetate:
	ity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 166.6 mg/l
Toxic aquat	ity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): 80.1 mg/l 8 h Fest Guideline 202
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 71.9 2 h Fest Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 49.2 2 h Fest Guideline 201



Version 3.1	Revision Date: 28.09.2024		DS Number: 13818-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To	
Sodiu	um hydroxymethanesu	lphi	inate:	
	ity to fish	:		idus (Golden orfe)): > 10,000 mg/l S h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic S	:	ErC50 (Desmode Exposure time: 72 Method: OECD Te	
			NOEC (Desmode Exposure time: 72 Method: OECD Te	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Danio reri Exposure time: 35 Method: OECD Te	
aquat	ity to daphnia and other tic invertebrates (Chron- icity)	:	EC10 (Daphnia m Exposure time: 21 Method: OECD Te	
Toxic	ity to microorganisms	:	NOEC: 10 mg/l Exposure time: 4	h
Persi	stence and degradabili	ity		
<u>Com</u>	ponents:			
	r olidone: egradability	:	Result: Readily bi Remarks: Based (odegradable. on data from similar materials
	yl alcohol: egradability	:	Result: Readily bi Biodegradation: S Exposure time: 14	92 - 96 %



/ersion 5.1	Revision Date: 28.09.2024	SDS Number: 1313818-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
Sodiu	um hydroxymethane	sulphinate:	
Biode	gradability	Biodegradation Exposure tim	
Bioad	ccumulative potentia	I	
Comp	oonents:		
2-Pyr	rolidone:		
	ion coefficient: n- ol/water	: log Pow: -0.7 Method: OEC	1 D Test Guideline 107
Partiti	yl alcohol: ion coefficient: n- ol/water	: log Pow: 1.05	5
Sodiu	um [2-[(2,6-dichlorop	henyl)amino]pheny	/l]acetate:
	ion coefficient: n- ol/water	: log Pow: 4.51	
Sodiı	um hydroxymethane	sulphinate:	
	ion coefficient: n- ol/water	: log Pow: < 0.	3
Mobi	lity in soil		
No da	ata available		
	r adverse effects		
No da	ata available		
ection 1	3: Disposal consider	ations	
Dispo	osal methods		
-	e from residues		se of waste into sewer.
Conta	aminated packaging	: Empty contai dling site for i	accordance with local regulations. ners should be taken to an approved waste h recycling or disposal. se specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

UNRTDG
UN number
UN proper shipping name

 UN 3082
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxytetracycline)



Version 3.1	Revision Date: 28.09.2024		DS Number: 13818-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
Pack Labe	sport hazard class(es) ing group Is ronmental hazards	:	9 III 9 yes	
UN/II	-DGR D No. proper shipping name	:	UN 3082 Environmentally f (oxytetracycline)	nazardous substance, liquid, n.o.s.
Pack Labe	ing instruction (cargo	:	9 III Miscellaneous 964	
Pack ger a	ing instruction (passen- ircraft) ronmentally hazardous	:	964 yes	
UN r	G-Code number er shipping name	:	UN 3082 ENVIRONMENTA N.O.S. (oxytetracycline)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Pack Labe EmS	sport hazard class(es) ing group ils Code ne pollutant	: : : : : : : : : : : : : : : : : : : :	9 III 9 F-A, S-F yes	

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.
Environmental Protection and Management Act and Environmental Protection and Management (Hazard-ous Substances) Regulations
Fire Safety (Petroleum and Flammable Materials) : Not applicable
Fire Safety (Petroleum and Flammable Materials) : Not applicable



Version 3.1	Revision Date: 28.09.2024		DS Number: 13818-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
The AICS		oduo :	ct are reported in a not determined	the following inventories:
DSL		:	not determined	
IEC	SC	:	not determined	
Section	16: Other information			
Rev	ision Date	:	28.09.2024	
Furt	her information			
com	Sources of key data used to compile the Safety Data Sheet		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen cy, http://echa.europa.eu/	
Date	e format	:	dd.mm.yyyy	
Full	text of other abbreviati	ons		
ACG SG (:	Singapore. Work	eshold Limit Values (TLV) blace Safety and Health (General Provisions) at Schedule Permissible Exposure Limits of 5.
ACG	GIH / TWA	:	8-hour, time-weig	hted average

 ACGIH / TWA
 :
 8-hour, time-weighted average

 SG OEL / PEL (long term)
 :
 Permissible Exposure Level (PEL) Long Term

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



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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.

SG / EN