

ersion D	Revision Date: 06.04.2024		S Number: 56036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019
ection 1	: Identification			
Produ	uct identifier	:	Oxytetracycline /	Diclofenac Formulation
Reco	mmended use of the ch	nem	ical and restriction	ons on use
Reco	mmended use	:	Veterinary produ	ct
Restr	ictions on use	:	Not applicable	
Manu	facturer or supplier's d	etai	ils	
Comp	bany	:	MSD	
Addre	ess	:	50 Tuas West Dr Singapore - Sing	-
Telep	hone	:	+1-908-740-4000)
Emer	gency telephone number	:	65 6697 2111 (24	4/7/365)
E-mai	il address	:	EHSDATASTEW	/ARD@msd.com

Classification of the substance or mixture								
Serious eye damage/eye irri- tation	:	Category 2						
Skin sensitisation	:	Category 1						
Reproductive toxicity	:	Category 1A						
Specific target organ toxicity -	:	Category 2 (Gastrointestinal tract, Blood						

Specific target organ toxicity - repeated exposure	:	Category 2 (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS Label elements, including precautionary statements

Hazard pictograms	:			¥2
Signal word	:	Danger	•	•

SAFETY DATA SHEET



Oxytetracycline / Diclofenac Formulation

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Haza	rd statements	H319 Causes H360FD May c H373 May cau Blood, lymphat repeated expo	se an allergic skin reaction. serious eye irritation. lamage fertility. May damage the unborn child. se damage to organs (Gastrointestinal tract, ic system, Liver, Prostate) through prolonged or sure. c to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P272 Contamin the workplace. P273 Avoid rel P280 Wear pro	becial instructions before use. andle until all safety precautions have been read d. reathe mist or vapours. in thoroughly after handling. nated work clothing should not be allowed out of ease to the environment. otective gloves/ protective clothing/ eye protec- iction/ hearing protection.
		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/ skin irritation or rash occurs: Get medical ad- eye irritation persists: Get medical advice/ at- ake off contaminated clothing and wash it before
		Storage: P405 Store loc Disposal:	

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-Pyrrolidone	616-45-5	>= 50 -< 70



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oxytetracycline	79-57-2	>= 20 -< 25
Magnesium oxide	1309-48-4	>= 1 -< 10
Sodium [2-[(2,6- dichlorophenyl)amino]phenyl]acetate	15307-79-6	>= 1 -< 2.5
Sodium hydroxymethanesulphinate	6035-47-8	>= 0.1 -< 1

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 : If inhaled, remove to fresh air. Get medical attention. In case of skin contact In case of skin contact : In case of contact, immediately flush skin with plenty of water. Remove contantiated 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 skin with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. Get medical attention. Risks 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 cause damage to organs through prolonged or repeated exposure. 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). Indication of	Description of necessary first-aid measures						
If inhaled:If inhaled, remove to fresh air. Get medical attention.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.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:May cause an allergic skin reaction. Causes serious eye irritation. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.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).Indication of any immediate medical attention and special treatment needed	General advice	vice immediately. When symptoms persist or in all cases of doubt seek medical					
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 	If inhaled	If inhaled, remove to fresh air.					
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 the unborn child. May cause damage to organs through prolonged or repeated exposure.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).Indication of any immediate medical attention and special treatment needed	In case of skin contact	Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.					
Get medical attention. Rinse mouth thoroughly with water.Most important symptoms and effects, both acute and delayedRisks:May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.Protection of first-aiders:First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment 	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.					
Risks: May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.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).Indication of any immediate medical attention and special treatment needed	If swallowed	Get medical attention.					
Causes serious eye irritation. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure. 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). Indication of any immediate medical attention and special treatment needed	Most important symptoms	d effects, both acute and delayed					
and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Indication of any immediate medical attention and special treatment needed	Risks	Causes serious eye irritation. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated					
	Protection of first-aiders	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment					
Treatment : Treat symptomatically and supportively	Indication of any immediate	nedical attention and special treatment needed					
	Treatment	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.



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-	al hazards arising fror				
Specific hazards during fire- fighting Hazardous combustion prod- ucts		:	 Exposure to combustion products may be a hazard to health. Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Sodium oxides 		
Speci	ial protective actions for	or fi	re-fighters		
for fire	al protective equipment ofighters fic extinguishing meth-	:	Use personal prot Use extinguishing cumstances and t Use water spray t	e, wear self-contained breathing apparatus. ective equipment. measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	Section 6: Accidental release measures Personal precautions, protective equipment and emergency procedures				
	nal precautions	:	Use personal prot Follow safe handl		

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.
	barnet be benamed.

Methods and materials for containment and cleaning up

certain local or national requirements.		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. Do not breathe 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. Do not eat, drink or smoke when using this product. 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, ir	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 such	Do not stone with the following model of the so

Materials to avoid

Section 8: Exposure controls/personal protection

:

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
oxytetracycline	79-57-2	TWA	500 µg/m3 (OEB	Internal

Do not store with the following product types:

Strong oxidizing agents



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			2)				
	Further inform	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	Further information: Skin					

Appropriate engineering : control measures	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Individual protection measure	s, such as personal protective equipment (PPE)
Eye/face protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin protection :	Work uniform or laboratory coat.
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Hand protection	Combined particulates and organic vapour type
Material :	Chemical-resistant gloves

Section 9: Physical and chemical properties

Appearance	: liquid
Colour	: brown, Greenish yellow
Odour	: characteristic
Odour Threshold	: No data available
рН	: No data available
Melting point/freezing point	: -33 °C



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	Initial bo range	iling point and boiling	:	100.5 °C	
	Flash po	int	:	No data available	
	Evapora	tion rate	:	No data available	
	Flammal	oility (solid, gas)	:	Not applicable	
	Flammal	oility (liquids)	:	No data available	
	Upper ex flammab	xplosion limit / Upper ility limit	:	No data available	
	Lower ex flammab	xplosion limit / Lower ility limit	:	No data available	
	Vapour p	oressure	:	No data available	
	Relative	vapour density	:	No data available	
	Relative	density	:	1.15 - 1.19 (25 °C	C)
	Density		:	No data available	
	Solubility Wate	/(ies) r solubility	:	soluble	
	Partition octanol/v	coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decomp	osition temperature	:	No data available	
	Viscosity Visco	, sity, dynamic	:	50.3 - 50.7 mPa.s	s (25 °C)
	Visco	sity, kinematic	:	No data available	
	Explosiv	e properties	:	Not explosive	
	Oxidizin	g properties	:	The substance or	mixture is not classified as oxidizing.
	Molecula	ar weight	:	No data available	1
	Particle Particle :	characteristics size	:	Not applicable	

Section 10: Stability and reactivity





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Possib tions Condit Incom	cal stability ility of hazardous reac- ions to avoid patible materials dous decomposition	:	Stable under no Can react with s None known. Oxidizing agents	strong oxidizing agents.
ction 11	: Toxicological inform	atic	n	
Inform exposi	ation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact	
	toxicity			
	assified based on availa	bie	information.	
Produ Acute	<u>ct:</u> oral toxicity	:	Acute toxicity est Method: Calculat	timate: > 2,000 mg/kg tion method
<u>Comp</u>	onents:			
2-Pyrr	olidone:			
	oral toxicity	:		000 mg/kg Fest Guideline 401 e substance or mixture has no acute oral to
Acute	dermal toxicity	:		2,000 mg/kg Fest Guideline 402 e substance or mixture has no acute dermal
oxytet	racycline:			
-	oral toxicity	:	LD50 (Rat): 4,80	0 mg/kg
			LD50 (Mouse): 2 Remarks: Evider	2,240 mg/kg nce of phototoxicity was observed
Acute	inhalation toxicity	:	Remarks: No dat	ta available
Acute	dermal toxicity	:	Remarks: No dat	ta available
Acute	toxicity (other routes of stration)	:	LD50 (Rat): 4,84 Application Rout	
admini				



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Magr	nesium oxide:						
Acute	e oral toxicity	:	Assessment: The icity	00 mg/kg est Guideline 423 substance or mixture has no acute oral tox- on data from similar materials			
Acute	Acute inhalation toxicity		LC50 (Rat): > 2.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: Based on data from similar materials				
Sodi	um [2-[(2,6-dichlorophe	enyl)amino]phenyl]ac	etate:			
Acute	e oral toxicity	:	LD50 (Rat): 55 - 2	240 mg/kg			
			LD50 (Mouse): 17	70 - 389 mg/kg			
	e toxicity (other routes of nistration)	:	LD50 (Rat): 97 - 7 Application Route				
			LD50 (Mouse): 92 Application Route				
Sodi	um hydroxymethanesu	lphi	nate:				
Acute	e oral toxicity	:		00 mg/kg est Guideline 423 on data from similar materials			
Acute	e dermal toxicity	:		00 mg/kg est Guideline 402 on data from similar materials			
	corrosion/irritation lassified based on availa	ble	information.				
	ponents:						
	rrolidone:		Pabbit				
Spec Meth	od	:	Rabbit OECD Test Guide	eline 404			
Resu	lt	:	No skin irritation				
-	etracycline:						
Rema	arks	:	No data available				
Sodi	um [2-[(2,6-dichlorophe	nyl)amino]phenyl]ac	etate:			
Resu	lt	:	irritating				



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Sodiu Speci Resu Rema	lt	: Rat : No skin irrita	ion ta from similar materials
Caus	ous eye damage/eye i es serious eye irritatio ponents:		
	rrolidone: ies	: Rabbit : Irritation to e	yes, reversing within 7 days
oxyte Rema	etracycline: arks	: No data avai	able
Magr Speci Resu Metho Rema	lt od		ion Guideline 405 ta from similar materials
Sodiu Resu	um [2-[(2,6-dichlorop ^{It}	henyl)amino]phen : Mild eye irrita	
Sodiu Speci Resu Metho Rema	lt od	: Rabbit : No eye irritat : OECD Test (ion Guideline 405 ta from similar materials
-	iratory or skin sensit	tisation	
-	cause an allergic skin	reaction.	
-	iratory sensitisation lassified based on ava	ilable information.	
Com	ponents:		
	rrolidone:		
Test Expos Speci Metho Resu Resu	sure routes ies od It	: Skin contact : Mouse : OECD Test (: negative	node assay (LLNA) Guideline 429 ta from similar materials



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oxyte	etracycline:			
Test Resu		:	Human repeat ins Sensitiser	sult patch test (HRIPT)
Magr	nesium oxide:			
Test	Tvpe	:	Maximisation Tes	t
	sure routes	:	Skin contact	
Spec		:	Guinea pig	
Meth		:	OECD Test Guide	eline 406
Resu	lt	:	negative	
Rema	arks	:	-	om similar materials
Sodiu	um hydroxymethanesi	ulph	inate:	
Test	Туре	:	Maximisation Tes	t
Expo	sure routes	:	Skin contact	
Spec	ies	:	Guinea pig	
Metho		:	OECD Test Guide	eline 406
Resu		:	negative	om similar materials
Rema				
	n cell mutagenicity lassified based on avail	ahlo	information	
	ponents:	abic	information.	
2-Pyr	rrolidone:			
Geno	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Method: OECD T Result: negative	o mammalian cell gene mutation test est Guideline 476
			Remarks: Based	on data from similar materials
				nosome aberration test in vitro est Guideline 473
Geno	otoxicity in vivo	:	cytogenetic assay Species: Mouse	
			Application Route Method: OECD T Result: negative	e: Intraperitoneal injection Test Guideline 474
oxvte	etracycline:			
	otoxicity in vitro		Test Tune: Mierel	aial mutagapasis assay (Amos tost)
Geno		•	Result: negative	bial mutagenesis assay (Ames test)



rsion)	Revision Date: 06.04.2024	SDS Number: 4156036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019
			louse Lymphoma tivation: Metabolic activation ve
			ster chromatid exchange assay Chinese hamster ovary cells rocal
		Test Type: C Result: nega	hromosomal aberration tive
Geno	toxicity in vivo	: Test Type: M Species: Mou Cell type: Bo Application R Result: equiv	ne marrow Route: Oral
		Test Type: in Species: Mou Application R Result: nega	use Route: Intraperitoneal injection
	cell mutagenicity -	: Weight of evi cell mutagen	dence does not support classification as a ger
Magn	esium oxide:		
Geno	toxicity in vitro	Method: OE0 Result: nega	acterial reverse mutation assay (AMES) CD Test Guideline 471 tive sed on data from similar materials
		Method: OE0 Result: nega	hromosome aberration test in vitro CD Test Guideline 473 tive sed on data from similar materials
		Method: OEC Result: nega	n vitro mammalian cell gene mutation test CD Test Guideline 476 tive sed on data from similar materials
دمين. ال	ım [2-[(2 6-dichloron	envl)aminolohoo	ullacetate:
	<pre>Im [2-[(2,6-dichloropl toxicity in vitro</pre>		acterial reverse mutation assay (AMES)
		Test Type: M Result: nega	louse Lymphoma tive
Geno	toxicity in vivo	: Test Type: C Species: CH	hromosomal aberration O



	06.04.2024	SDS Number: 4156036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019
			-
		Result: negativ	
Sodiu	um hydroxymethanes	sulphinate:	
Geno	toxicity in vitro		cterial reverse mutation assay (AMES)) Test Guideline 471 /e
		Remarks: Base	ed on data from similar materials
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro	e ute: Intraperitoneal injection
		Method: OECD Result: positive) Test Guideline 474
			ed on data from similar materials
	cell mutagenicity -	: Positive result(genicity tests.	s) from in vivo mammalian somatic cell muta
II Carci	nogenicity		
	lassified based on ava	ilable information.	
Com	oonents:		
2-Pyr	rolidone:		
2-Pyr Spec	rolidone: ies	: Mouse	
Spec Appli	es cation Route	: Ingestion	
Spec Appli Expo	es cation Route sure time	: Ingestion : 18 month(s)	
Spec Appli	ies cation Route sure time It	: Ingestion : 18 month(s) : negative	from similar materials
Speci Applie Expo Resu Resu	ies cation Route sure time It	: Ingestion : 18 month(s) : negative	from similar materials
Speci Applie Expos Resu Rema oxyte	ies cation Route sure time lt arks etracycline: ies	: Ingestion : 18 month(s) : negative	from similar materials
Speci Applie Expos Resu Rema oxyte Applie	ies cation Route sure time lt arks etracycline: ies cation Route	: Ingestion : 18 month(s) : negative : Based on data : Mouse : Oral	from similar materials
Speci Applie Expose Resu Rema oxyte Speci Applie Expose	ies cation Route sure time lt arks etracycline: es cation Route sure time	 Ingestion 18 month(s) negative Based on data Mouse Oral 104 weeks 	from similar materials
Speci Applie Expos Resu Rema oxyte Applie	ies cation Route sure time lt arks etracycline: es cation Route sure time	: Ingestion : 18 month(s) : negative : Based on data : Mouse : Oral	from similar materials
Speci Applie Expos Resu Rema oxyte Speci Applie Expos Resu	tes cation Route sure time lt arks etracycline: tes cation Route sure time lt	 Ingestion 18 month(s) negative Based on data Mouse Oral 104 weeks 	from similar materials
Speci Applie Expose Resu Rema oxyte Speci Applie Speci Applie	tes cation Route sure time lt arks etracycline: tes cation Route sure time lt es cation Route	 Ingestion 18 month(s) negative Based on data Mouse Oral 104 weeks negative Rat Oral 	from similar materials
Speci Applie Expose Resu Rema Speci Applie Expose Speci Applie Expose	tes cation Route sure time It arks etracycline: tes cation Route sure time It tes cation Route sure time sure time	 Ingestion 18 month(s) negative Based on data Mouse Oral 104 weeks negative Rat Oral 103 weeks 	from similar materials
Speci Applie Expos Resu Rema Speci Applie Expos Resu Speci Applie Expos Resu	tes cation Route sure time It arks etracycline: tes cation Route sure time It tes cation Route sure time sure time lt	 Ingestion 18 month(s) negative Based on data Mouse Oral 104 weeks negative Rat Oral 103 weeks equivocal 	
Speci Applie Expos Resu Rema Speci Applie Expos Resu Speci Applie Expos Resu	tes cation Route sure time arks etracycline: tes cation Route sure time tt cation Route sure time tt cation Route sure time tt cation Route sure time at organs	 Ingestion 18 month(s) negative Based on data Mouse Oral 104 weeks negative Rat Oral 103 weeks equivocal Adrenal gland, 	Pituitary gland
Speci Applie Expos Resu Rema Speci Applie Expos Resu Targe Rema	tes cation Route sure time arks etracycline: tes cation Route sure time tt cation Route sure time tt cation Route sure time tt cation Route sure time at organs	 Ingestion 18 month(s) negative Based on data Mouse Oral 104 weeks negative Rat Oral 103 weeks equivocal Adrenal gland, The mechanism mans. 	
Speci Applie Expose Resu Rema Speci Applie Expose Resu Targe Resu Targe Rema	tes cation Route sure time lt arks etracycline: tes cation Route sure time lt es cation Route sure time lt et Organs arks	 Ingestion 18 month(s) negative Based on data Mouse Oral 104 weeks negative Rat Oral 103 weeks equivocal Adrenal gland, The mechanism mans. Weight of evided 	Pituitary gland m or mode of action may not be relevant in h





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Application Route Exposure time Result Remarks		Ingestion 96 weeks
Result	:	negative
Remarks	:	Based on data from similar materials

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

Species Application Route Exposure time Result		Rat Oral 2 Years negative
Species Application Route Exposure time Result	:	Mouse Oral 2 Years negative

Reproductive toxicity

May damage fertility. May damage the unborn child.

Components:

2-Pyrrolidone:

z-i ynondone.		
Effects on fertility	:	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive
Reproductive toxicity - As- sessment	:	Clear evidence of adverse effects on sexual function and fertil- ity, based on animal experiments., Clear evidence of adverse effects on development, based on animal experiments.
oxytetracycline:		
Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 18 mg/kg body weight Result: No effects on fertility, No effect on reproduction capac- ity, No significant adverse effects were reported
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Embryo-foetal toxicity: LOAEL: 48 mg/kg body weight Result: Postimplantation loss., Skeletal malformations



ersion 0	Revision Date: 06.04.2024	SDS Number: 4156036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019
	06.04.2024	Test Type: E Species: Rai Application F General Tox Embryo-foet Result: No te Remarks: Ma Test Type: E Species: Mo Application F General Tox Embryo-foet Result: No te Remarks: Ma Test Type: E Species: Rai Application F Embryo-foet	mbryo-foetal development Route: Oral icity Maternal: LOAEL: 1,200 mg/kg body weight al toxicity: NOAEL: 1,500 mg/kg body weight eratogenic effects aternal toxicity observed. imbryo-foetal development use Route: Oral icity Maternal: LOAEL: 1,325 mg/kg body weight al toxicity: NOAEL: 2,100 mg/kg body weight eratogenic effects aternal toxicity observed.
		Species: Do Application F Embryo-foet	mbryo-foetal development g Route: Intramuscular al toxicity: LOAEL: 20.75 mg/kg body weight etal and visceral variations, Postimplantation loss.
Repro sessn	oductive toxicity - As- nent		ence of adverse effects on development from emiological studies.
Magn	esium oxide:		
	s on fertility	reproduction Species: Rat Application F Method: OE Result: nega	Route: Ingestion CD Test Guideline 422
Effect ment	s on foetal develop-	reproduction Species: Rat Application F Method: OE0 Result: nega	Route: Ingestion CD Test Guideline 422
Sodiu	um [2-[(2,6-dichloroph	enyl)amino]phen	yl]acetate:
Effect	s on fertility	: Test Type: F Species: Rat	ertility , male and female



rsion)	Revision Date: 06.04.2024	SDS Number: 4156036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019
			oute: Oral EL: 4 mg/kg body weight ects on fertility
Effects ment	s on foetal develop-		
			pit
Repro sessm	ductive toxicity - As- nent	: Suspected of	damaging the unborn child.
Sodiu	m hydroxymethanes	ulphinate:	
Effects	s on fertility	reproduction/o Species: Rat Application Ro Method: OEC Result: negati	mbined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ve ed on data from similar materials
Effects ment	s on foetal develop-	Species: Rat Application Ro Method: OEC Result: positiv	nbryo-foetal development oute: Ingestion D Test Guideline 414 e eed on data from similar materials
Repro sessm	ductive toxicity - As-	: Some evideno animal experii	e of adverse effects on development, based on

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) through prolonged or repeated exposure.

Components:

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

Target Organs Assessment	Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate Causes damage to organs through prolonged or repeated
	exposure.



/ersion 5.0	Revision Date: 06.04.2024	SDS Number: 4156036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019
Repe	ated dose toxicity		
Com	oonents:		
2-Pyr	rolidone:		
Speci		: Rat	
NOAE		: 207 mg/kg	
	cation Route sure time	: Ingestion : 3 Months	
Metho			Guideline 408
	etracycline:		
Speci LOAE		: Rat	
	cation Route	: 198 mg/kg : Oral	
Expos	sure time	: 13 Weeks	
	et Organs	: Bone	te le construction de la
Rema	arks	: No significar	nt adverse effects were reported
Speci		: Mouse	
LOAE		: 7,990 mg/kg : Oral	l
	cation Route sure time	: 13 Weeks	
	et Organs	: Bone	
Rema	arks	: No significar	nt adverse effects were reported
Speci		: Dog	
NOAE		: 125 mg/kg	
LOAE	L Cation Route	: 250 mg/kg : Oral	
	sure time	: 12 Months	
Targe	et Organs	: Testis	
Rema	arks	: Significant to	oxicity observed in testing
Speci		: Rat	
NOAE LOAE		: 40 mg/kg : 100 mg/kg	
	cation Route	: Intraperitone	al
Expo	sure time	: 14 Days	
	et Organs	: Kidney	
	esium oxide:		
Speci		: Rat	
NOA		: >= 1,000 mg	g/kg
	cation Route sure time	: Ingestion : 28 Days	
Metho			Guideline 407
Rema			ata from similar materials

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



ersion .0	Revision Date: 06.04.2024	SDS Number: 4156036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019				
Speci LOAE Applio		: Rat : 0.25 mg/kg : Oral					
Exposure time Target Organs		: 98 w : Gastrointestina	98 wGastrointestinal tract, Blood, lymphatic system, Liver, Prostat				
Species LOAEL Application Route Exposure time Target Organs		: Dog : 1 mg/kg : Oral : 12 w : Blood	: 1 mg/kg : Oral : 12 w				
Expos	EL EL cation Route sure time et Organs		: 0.5 mg/kg : 5 mg/kg : Oral				
Sodiu	um hydroxymethane	sulphinate:					
Speci NOAE Applic Expos Metho Rema	EL cation Route sure time od	: Rat : 600 mg/kg : Ingestion : 90 Days : OECD Test Gu : Based on data	ideline 408 from similar materials				
Aspir	ation toxicity						
	lassified based on ava						
-	rience with human e	xposure					
	oonents:						
oxyte Inges	etracycline: tion		strointestinal disturbance, tooth discoloration cause birth defects.				
Sodiu	um [2-[(2,6-dichlorop	henyl)amino]phenyl]	acetate:				
Inges	tion		dominal pain, Diarrhoea, constipation, heart- n, Dizziness, Headache, Breathing difficulties,				
ection 1	2: Ecological inform	ation					
Toxic	sity						
<u>Com</u>	oonents:						

Toxicity to fish

: LC50 (Danio rerio (zebra fish)): > 4,600 - 10,000 mg/l



ersion D	Revision Date: 06.04.2024		OS Number: 56036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019		
			Exposure time: 90 Method: OECD T	δ h est Guideline 203		
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): > 500 mg/l 3 h		
Toxicity to algae/aquatic plants		:	: ErC50 (Desmodesmus subspicatus (green algae)): > 500 Exposure time: 72 h			
			EC10 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 22.2 mg/l 2 h		
Toxici	ty to microorganisms	:	Exposure time: 3			
oxyte	tracycline:					
Toxici	ty to fish	:	Exposure time: 9	ipes (Japanese medaka)): 110 mg/l 6 h est Guideline 203		
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 621 mg/l Exposure time: 48 h Method: OECD Test Guideline 202			
			Exposure time: 4	nagna (Water flea)): 669 mg/l 3 h est Guideline 202		
Toxici plants	ty to algae/aquatic	:	EC50 (Anabaena Exposure time: 72			
			NOEC (Anabaen Exposure time: 72			
	ctor (Acute aquatic tox-	:	10			
	ctor (Chronic aquatic	:	10			
toxicit <u>;</u> Toxici	y) ty to microorganisms	:	EC50: 17.9 mg/l Exposure time: 3 Test Type: Respi Method: OECD T			
			NOEC: 0.2 mg/l Exposure time: 3 Test Type: Respi Method: OECD T			

Magnesium oxide:



ersion)	Revision Date: 06.04.2024		0S Number: 56036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019
Toxici	ty to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 100 mg 5 h on data from similar materials
Toxicity to daphnia and other aquatic invertebrates		:	 EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials 	
Toxicity to algae/aquatic plants		:	EL50 (Pseudokirchneriella subcapitata (green algae)): > mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials	
Toxici	ty to microorganisms	:	Exposure time: 3 Method: OECD Te	h
Sodiu	ım [2-[(2,6-dichlorophe	nvl)aminolohenvilac	otato.
	ity to fish	:		s promelas (fathead minnow)): 166.6 mg b h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
Toxici icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Sodiu	ım hydroxymethanesu	Inhi	inate:	
	ity to fish			idus (Golden orfe)): > 10,000 mg/l





	Revision Date: 06.04.2024		S Number: 56036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019
	ty to daphnia and other c invertebrates	:	Exposure time: 4 Method: OECD	magna (Water flea)): > 100 mg/l l8 h Fest Guideline 202 l on data from similar materials
Toxicit plants	ty to algae/aquatic	:	Exposure time: 7 Method: OECD	esmus subspicatus (green algae)): 370 n /2 h Fest Guideline 201 I on data from similar materials
Toxici1 icity)	ty to fish (Chronic tox-	:	Exposure time: 3 Method: OECD	rio (zebra fish)): 13.5 mg/l 35 d Fest Guideline 210 I on data from similar materials
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2 Method: OECD	magna (Water flea)): 5.6 mg/l 21 d Fest Guideline 211 I on data from similar materials
Toxicit	ty to microorganisms	:	EC50: > 1,000 m Exposure time: 4 Remarks: Based	
Persis	stence and degradabil	ity		
<u>Comp</u>	onents:			
2-Pyrr				
	olidone:			
Biode	gradability	:	Result: Readily to Remarks: Basec	piodegradable. I on data from similar materials
		: Iphi	Remarks: Basec	
Sodiu	gradability	: Iphi :	Remarks: Based nate: Result: Readily & Biodegradation: Exposure time: 2 Method: OECD	on data from similar materials piodegradable. 77 %
Sodiu Biodeç	gradability m hydroxymethanesu	: Iphi :	Remarks: Based nate: Result: Readily & Biodegradation: Exposure time: 2 Method: OECD	l on data from similar materials piodegradable. 77 % 28 d Fest Guideline 301B
Sodiu Biodeo Bioac	gradability m hydroxymethanesu gradability	Iphi :	Remarks: Based nate: Result: Readily & Biodegradation: Exposure time: 2 Method: OECD	l on data from similar materials piodegradable. 77 % 28 d Fest Guideline 301B
Sodiu Biodeo Bioac <u>Comp</u>	gradability m hydroxymethanesu gradability cumulative potential	Iphi	Remarks: Based nate: Result: Readily & Biodegradation: Exposure time: 2 Method: OECD	l on data from similar materials piodegradable. 77 % 28 d Fest Guideline 301B
Sodiu Biodeg Bioac Comp 2-Pyrr Partitio	gradability m hydroxymethanesu gradability cumulative potential <u>onents:</u>	: Iphi :	Remarks: Based nate: Result: Readily & Biodegradation: Exposure time: 2 Method: OECD Remarks: Based	l on data from similar materials piodegradable. 77 % 28 d Fest Guideline 301B
Sodiu Biodeg Bioac Comp 2-Pyrr Partitio octanc	gradability m hydroxymethanesu gradability cumulative potential <u>onents:</u> on coefficient: n-	:	Remarks: Based nate: Result: Readily & Biodegradation: Exposure time: 2 Method: OECD Remarks: Based	on data from similar materials piodegradable. 77 % 28 d Fest Guideline 301B on data from similar materials



Version 5.0	Revision Date: 06.04.2024		DS Number: 56036-00016	Date of last issue: 30.09.2023 Date of first issue: 17.04.2019
Mobi No da Othe No da	ol/water lity in soil ata available r adverse effects ata available 3: Disposal considerat	tion	5	
			-	
-	osal methods e from residues	:		of waste into sewer. cordance with local regulations.
Conta	aminated packaging	:	Empty container dling site for rec	s should be taken to an approved waste han- ycling or disposal. specified: Dispose of as unused product.
Section 1	4: Transport information	on		
Inter	national Regulations			
UNR				
	umber roper shipping name	:	UN 3082 ENVIRONMENT N.O.S. (oxytetracycline	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Packi	sport hazard class(es) ng group	:	9 	,
Label Envir	s onmental hazards		9 yes	
ΙΑΤΑ	-DGR		-	
UN/IE		:	UN 3082	
-	roper shipping name	:	Environmentally (oxytetracycline 9	hazardous substance, liquid, n.o.s.)
	port hazard class(es)	:	9 	
Labe		÷	Miscellaneous	
Packi aircra	ng instruction (cargo .ft)	:	964	
	ng instruction (passen- ircraft)	:	964	
Envir	onmentally hazardous	:	yes	
IMDO	G-Code			
	umber er shipping name	:	UN 3082 ENVIRONMENT N.O.S. (oxytetracycline)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Packi	sport hazard class(es) ng group	:	9 	
Label EmS	S Code	:	9 F-A, S-F	



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Marine pollutant : yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

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

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 : Not applicable Environmental Protection and Management (Hazard-

ous Substances) Regulations		
Fire Safety (Petroleum and Flammable Materials) Regulations	:	Not applicable

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

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

Section 16: Other information

Revision Date	:	06.04.2024
Further information 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/

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

Date format	:	dd.mm.yyyy
Full text of other abbreviati	ons	
ACGIH SG OEL		USA. ACGIH Threshold Limit Values (TLV) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.



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