



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Oxytetracycline / Diclofenac Formulation
Manufacturer or supplier's details

Manufacturer or supplier's details						
:	MSD					
:	126 E. Lincoln Avenue					
	Rahway, New Jersey U.S.A. 07065					
:	908-740-4000					
:	1-908-423-6000					
:	EHSDATASTEWARD@msd.com					
Recommended use of the chemical and restrictions on use						
	:					

Recommended use:Veterinary productRestrictions on use:Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin corrosion/irritation	:	Category 3
Serious eye damage/eye irritation	:	Category 2B
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 1 (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	 H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H320 Causes eye irritation. H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) through prolonged or repeated exposure.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.



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		P264 Wash ski P270 Do not ea P272 Contamin the workplace.	ated work clothin tective gloves/ p	
		P305 + P351 + for several minu to do. Continue P308 + P313 IF attention. P333 + P313 If attention. P337 + P313 If tion.	P338 IF IN EYE utes. Remove co rinsing. exposed or con skin irritation or eye irritation per	h with plenty of water. S: Rinse cautiously with water intact lenses, if present and easy incerned: Get medical advice/ rash occurs: Get medical advice/ rsists: Get medical advice/ atten- ated clothing and wash it before
		Storage: P405 Store locl	ked up.	
		Disposal: P501 Dispose o posal plant.	of contents/ cont	ainer to an approved waste dis-
Othe	r hazards			
None	known.			
ECTION	3. COMPOSITION/I	NFORMATION ON ING	REDIENTS	
Subs	tance / Mixture	: Mixture		
	ponents			
	nical name		CAS-No.	Concentration (% w/w)
	rolidono		616 15 5	>= 50 < 70

Chemical name	CAS-No.	Concentration (% w/w)
2-Pyrrolidone	616-45-5	>= 50 -< 70
Oxytetracycline	79-57-2	>= 20 -< 30
Magnesium oxide	1309-48-4	>= 1 -< 5
Sodium [2-[(2,6-	15307-79-6	>= 1 -< 5
dichlorophenyl)amino]phenyl]acetate		
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, remove to fresh air. Get medical attention.



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In case of skin contact		Remove conta Get medical a Wash clothing	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.		
In case of eye contact		: In case of con for at least 15 If easy to do, r	Thoroughly clean shoes before reuse. 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, I Get medical a	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.		
Most important symptoms and effects, both acute and delayed		: Causes mild s May cause an Causes eye in May damage f	kin irritation. allergic skin reaction.		
Protection of first-aiders Notes to physician		: First Aid respo and use the re when the pote	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). Treat symptomatically and supportively.		

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Sodium 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. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.



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		oil barriers). Retain and dispo	ng over a wide area (e.g., by containment or ose of contaminated wash water. should be advised if significant spillages ned.
	ds and materials for ment and cleaning up	For large spills, p containment to k can be pumped, container. Clean up remain absorbent. Local or national disposal of this n employed in the determine which Sections 13 and	rt absorbent material. provide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
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 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	:	Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.



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Materi	als to avoid	Strong oxidizing	ostances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<u> </u>	•			
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oxytetracycline	79-57-2	TWA	500 μg/m3 (OEB 2)	Internal
	Further inform	ation: DSEN		
		Wipe limit	100 µg/100 cm ²	Internal
Magnesium oxide	1309-48-4	VLE-PPT (Inhalable)	10 mg/m ³	NOM-010- STPS-2014
		TWA (Inhalable particulate 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		

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
	protect products, workers, and the environment.

Personal protective equipment

Respiratory protection Filter type		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type
Hand protection		
Material	•	Chemical-resistant gloves
Eye protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	:	Work uniform or laboratory coat.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	ance	:	liquid	
	Color		:	brown, Greenish	yellow
	Odor		:	characteristic	
	Odor Th	nreshold	:	No data available	9
	рН		:	No data available)
	Melting	point/freezing point	:	-33 °C	
	Initial be range	oiling point and boiling	:	100.5 °C	
	Flash p	oint	:	No data available)
	Evapora	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	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	1.15 - 1.19 (25 °C	C)
	Density		:	No data available	
	Solubili Wate	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosit Visc	ty osity, dynamic	:	50.3 - 50.7 mPa.s	s (25 °C)
	Visc	osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.



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Molec	cular weight	:	No data availa	ble					
Partic	Particle size		: Not applicable						
SECTION	10. STABILITY AND RE	EAC	TIVITY						
Possi tions Condi Incom	nical stability bility of hazardous reac- itions to avoid opatible materials rdous decomposition	:	: None known. : Oxidizing agents						
Inforr Inhala Skin d	contact								
	tion ontact e toxicity								
	assified based on availa	ble	information.						
Produ	uct:								
Acute	oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 5,000 mg/kg ation method					
Com	oonents:								
2-Pyr	rolidone:								
Acute	oral toxicity	:		,000 mg/kg Test Guideline 401 ne substance or mixture has no acute oral tox-					
Acute	dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity						
-	etracycline:								
Acute	oral toxicity	:	LD50 (Rat): 4,8	00 mg/kg					
			LD50 (Mouse): Remarks: Evide	2,240 mg/kg ence of phototoxicity was observed					
Acute	inhalation toxicity	:	Remarks: No da	ata available					



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Acute	dermal toxicity	:	Remarks: No data	a available
Acute toxicity (other routes of administration)		:	LD50 (Rat): 4,840 Application Route	
			LD50 (Mouse): 3, Application Route	
Magn	esium oxide:			
Acute	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	inhalation toxicity	:	Exposure time: 4 Test atmosphere: Method: OECD T	h
Sodiu	m [2-[(2,6-dichlorophe	nyl)amino]phenyl]ac	etate:
Acute	oral toxicity	:	LD50 (Rat): 55 - 2	240 mg/kg
			LD50 (Mouse): 17	70 - 389 mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 97 - 7 Application Route	
			LD50 (Mouse): 92 Application Route	
Sodiu	m hydroxymethanesu	lphi	nate:	
Acute	oral toxicity	:		00 mg/kg est Guideline 423 on data from similar materials
Acute	dermal toxicity	:	Method: OECD T	00 mg/kg est Guideline 402 on data from similar materials
Skin d	corrosion/irritation			
Cause	5 milu skin imation.			
	onents:			
Comp				
Comp	o <mark>onents:</mark> rolidone: es	:	Rabbit OECD Test Guide	alina 404

Oxytetracycline:



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Rema	rks	: No data available	
Sodiu	ım [2-[(2,6-dichloro	phenyl)amino]phenyl]acetate:	
Resul		: irritating	
Sodiu	ım hydroxymethane	esulphinate:	
Speci	es	: Rat	
Resul		: No skin irritation	
Rema	rks	: Based on data from similar materials	
Serio	us eye damage/eye	irritation	
	es eye irritation.		
<u>Comp</u>	oonents:		
-	rolidone:	D-bbit	
Speci Resul		: Rabbit	
Resul	L	: Irritation to eyes, reversing within 7 days	
-	etracycline:		
Rema	rks	: No data available	
Magn	esium oxide:		
Speci	es	: Rabbit	
Resul		: No eye irritation	
Metho		: OECD Test Guideline 405	
Rema	rks	: Based on data from similar materials	
Sodiu	ım [2-[(2,6-dichloro	phenyl)amino]phenyl]acetate:	
Resul	t	: Mild eye irritation	
Sodiu	Im hydroxymethane	esulphinate:	
Speci	es	: Rabbit	
Resul		: No eye irritation	
Metho	-	: OECD Test Guideline 405	
Rema	rks	: Based on data from similar materials	
Respi	ratory or skin sens	itization	
Skin s	sensitization		
•	ause an allergic skin		
-	ratory sensitization		
	assified based on av ponents:		
Z-Pyr Test 1	rolidone:	: Local lymph node assay (LLNA)	
	s of exposure	: Skin contact	



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Speci	es	: Mouse					
Metho			Guideline 429				
Resul		: negative					
Remarks			ta from similar materials				
Rema		. Dased on da					
Oxyte	etracycline:						
Test T	уре	: Human repeat insult patch test (HRIPT)					
Resul	t	: Sensitizer					
Magn	esium oxide:						
Test T		: Maximization	Test				
	s of exposure	: Skin contact					
Speci		: Guinea pig					
Metho			Guideline 406				
Resul		: negative					
Rema	-		ta from similar materials				
Rema		. Dased on da					
	m hydroxymethane	•	_				
Test T		: Maximization	Test				
	s of exposure	: Skin contact					
Speci	es	: Guinea pig					
0000		A - A - - - -	OECD Test Guideline 406				
Metho	d	: OECD Test C	Juideline 406				
			Juideline 406				
Metho Resul Rema	t rks cell mutagenicity	: negative : Based on da	a from similar materials				
Metho Resul Rema Germ Not cl	t rks	: negative : Based on da					
Metho Resul Rema Germ Not cl <u>Comp</u>	t rks cell mutagenicity assified based on ava	: negative : Based on da					
Metho Result Rema Germ Not cl <u>Comp</u> 2-Pyr	t rks cell mutagenicity assified based on ava ponents:	: negative : Based on dat ailable information.	ta from similar materials acterial reverse mutation assay (AMES)				
Metho Result Rema Germ Not cl <u>Comp</u> 2-Pyr	t rks cell mutagenicity assified based on ava <u>ponents:</u> rolidone:	: negative : Based on dat ailable information. : Test Type: B Result: negat Test Type: In Method: OEC	ta from similar materials acterial reverse mutation assay (AMES) tive vitro mammalian cell gene mutation test CD Test Guideline 476				
Metho Result Rema Germ Not cl <u>Comp</u> 2-Pyr	t rks cell mutagenicity assified based on ava <u>ponents:</u> rolidone:	: negative : Based on dat ailable information. : Test Type: B Result: negat Test Type: In Method: OEC Result: negat	ta from similar materials acterial reverse mutation assay (AMES) tive vitro mammalian cell gene mutation test CD Test Guideline 476				
Metho Result Rema Germ Not cl <u>Comp</u> 2-Pyr	t rks cell mutagenicity assified based on ava <u>ponents:</u> rolidone:	: negative : Based on dat ailable information. : Test Type: B Result: negat Test Type: In Method: OEC Result: negat Remarks: Ba Test Type: C	ta from similar materials acterial reverse mutation assay (AMES) tive vitro mammalian cell gene mutation test CD Test Guideline 476 tive sed on data from similar materials hromosome aberration test in vitro CD Test Guideline 473				
Metho Resul Rema Not cl Comp 2-Pyr Genot	t rks cell mutagenicity assified based on ava <u>ponents:</u> rolidone:	 : negative : Based on data ailable information. : Test Type: B Result: negative : Test Type: In Method: OEC Result: negative : Test Type: C Method: OEC Result: negative : Test Type: C Method: OEC Result: negative : Test Type: M cytogenetic a Species: Mot Application R 	ta from similar materials acterial reverse mutation assay (AMES) tive vitro mammalian cell gene mutation test CD Test Guideline 476 tive sed on data from similar materials hromosome aberration test in vitro CD Test Guideline 473 tive lammalian erythrocyte micronucleus test (in vive assay) use coute: Intraperitoneal injection				
Metho Resul Rema Not cl Comp 2-Pyr Genot	t rks cell mutagenicity assified based on ava <u>conents:</u> rolidone: toxicity in vitro	 : negative : Based on data ailable information. : Test Type: B Result: negative : Test Type: In Method: OEC Result: negative : Test Type: C Method: OEC Result: negative : Test Type: C Method: OEC Result: negative : Test Type: M cytogenetic a Species: Mot Application R 	ta from similar materials acterial reverse mutation assay (AMES) tive vitro mammalian cell gene mutation test CD Test Guideline 476 tive sed on data from similar materials hromosome aberration test in vitro CD Test Guideline 473 tive ammalian erythrocyte micronucleus test (in vive assay) use coute: Intraperitoneal injection CD Test Guideline 474				
Methor Result Rema Out of Comp Comp Genot	t rks cell mutagenicity assified based on ava <u>conents:</u> rolidone: toxicity in vitro	 : negative : Based on data ailable information. : Test Type: B Result: negative : Test Type: In Method: OEC Result: negative : Test Type: C Method: OEC Result: negative : Test Type: C Method: OEC Result: negative : Test Type: M cytogenetic a Species: Mon Application R Method: OEC Result: negative 	ta from similar materials acterial reverse mutation assay (AMES) tive vitro mammalian cell gene mutation test CD Test Guideline 476 tive sed on data from similar materials hromosome aberration test in vitro CD Test Guideline 473 tive ammalian erythrocyte micronucleus test (in vive assay) use coute: Intraperitoneal injection CD Test Guideline 474				



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		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	
Geno	otoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: equivocal	
		Test Type: in vivo assay Species: Mouse Application Route: Intraperitoneal injection Result: negative	
	n cell mutagenicity - ssment	: Weight of evidence does not support classification as a cell mutagen.	a germ
Маді	nesium oxide:		
Geno	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials	
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative	
		Remarks: Based on data from similar materials	
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative	
		Remarks: Based on data from similar materials	
		enyl)amino]phenyl]acetate:	
Geno	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
		Test Type: Mouse Lymphoma Result: negative	
Genc	otoxicity in vivo	: Test Type: Chromosomal aberration Species: CHO Result: negative	



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Sod	ium hydroxymethanes	ulph	inate:	
Gen	otoxicity in vitro	:	Method: OECD Result: negative	erial reverse mutation assay (AMES) Test Guideline 471 I on data from similar materials
Gen	otoxicity in vivo	:	cytogenetic assa Species: Mouse Application Rout Method: OECD Result: positive	malian erythrocyte micronucleus test (in vivo ay) e: Intraperitoneal injection Test Guideline 474 I on data from similar materials
	m cell mutagenicity - essment	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
Care	cinogenicity			
Not	classified based on avail	able	information.	
<u>Con</u>	<u>iponents:</u>			
2-P)	/rrolidone:			
Exp Res	lication Route osure time		Mouse Ingestion 18 month(s) negative Based on data fi	rom similar materials
Oxv	tetracycline:			
Spe App	cies lication Route osure time	:	Mouse Oral 104 weeks negative	
Exp Res Targ	lication Route osure time	:	Rat Oral 103 weeks equivocal Adrenal gland, F The mechanism mans.	ituitary gland or mode of action may not be relevant in hu-
Caro men	cinogenicity - Assess- t	:	Weight of evider cinogen	nce does not support classification as a car-
Spe App	lication Route osure time		Mouse Ingestion 96 weeks negative	



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Rema	Remarks		Based on data fr	om similar materials
Sodiu	um [2-[(2,6-dichloroph	enyl)amino]phenyl]a	cetate:
Speci			Rat	
	cation Route	÷	Oral	
	sure time	:	2 Years	
Resu	lt	:	negative	
Speci		:	Mouse	
	cation Route	:	Oral	
Expo Resu	sure time It	:	2 Years negative	
Repr	oductive toxicity			
	damage fertility. May dar	mag	e the unborn child	l.
<u>Com</u>	ponents:			
•	rolidone:			
Effect	ts on fertility	:		generation reproduction toxicity study
			Species: Rat	- 1
			Application Rout Result: positive	e: Ingestion
			Remarks: Based	l on data from similar materials
Effect	ts on fetal development	:		yo-fetal development
			Species: Rat	
			Application Rout Result: positive	e: Ingestion
Repro sessr	oductive toxicity - As- nent	:	fertility, based or	of adverse effects on sexual function and a animal experiments., Clear evidence of on development, based on animal
			experimente:	
-	etracycline:			
Effect	ts on fertility	:		generation reproduction toxicity study
			Species: Rat Application Rout	e: Oral
				e. Oral : 18 mg/kg body weight
				is on fertility., No effect on reproduction
				nificant adverse effects were reported
Effect	ts on fetal development	:		yo-fetal development
			Species: Rat	
				e: Orai icity.: LOAEL: 48 mg/kg body weight antation loss., Skeletal malformations.
			Test Type: Embr	yo-fetal development
			Species: Rat	
			Application Rout	e: Oral Maternal: LOAEL: 1,200 mg/kg body weight
			General Loxicity	iviaternai: LUAEL: 1,200 mg/kg body weig



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			Result: No teratog	city.: NOAEL: 1,500 mg/kg body weight genic effects. al toxicity observed.
			Species: Mouse Application Route General Toxicity I Embryo-fetal toxic Result: No teratog	Maternal: LOAEL: 1,325 mg/kg body weight city.: NOAEL: 2,100 mg/kg body weight
			Species: Rabbit Application Route Embryo-fetal toxic	vo-fetal development e: Intramuscular city.: LOAEL: 41.5 mg/kg body weight intation loss., No fetal abnormalities.
			Species: Dog Application Route Embryo-fetal toxic	vo-fetal development e: Intramuscular city.: LOAEL: 20.75 mg/kg body weight nd visceral variations ., Postimplantation
•	roductive toxicity - As- sment	:	Positive evidence human epidemiol	of adverse effects on development from ogical studies.
Mag	nesium oxide:			
-	cts on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	
Effe	cts on fetal development	:	reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	
Sod	ium [2-[(2,6-dichlorophe	enyl)amino]phenyl]ac	etate:
	cts on fertility	:	Test Type: Fertilit Species: Rat, mal Application Route	y le and female e: Oral 4 mg/kg body weight
Effe	cts on fetal development	:	Test Type: Develo	opment



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					Oral xicity: LOAEL: 1 mg/kg body weight tal toxicity., No teratogenic effects.			
	Reprod sessme	uctive toxicity - As- nt	:	Suspected of dam	aging the unborn child.			
	Sodium	n hydroxymethanesu	Iphinate:					
	Effects	on fertility	:	reproduction/deve Species: Rat Application Route: Method: OECD Te Result: negative				
	Effects	on fetal development	:	Species: Rat Application Route: Method: OECD Te Result: positive				
	Reprod sessme	uctive toxicity - As- nt	:	Some evidence of animal experiment	adverse effects on development, based on ts.			

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes 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.
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Repeated dose toxicity

Components:

2-Pyrrolidone:

Species	:	Rat
NOAEL	:	207 mg/kg
Application Route	:	Ingestion



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Exposure time		: 3 Months						
Metho			: OECD Test Guideline 408					
Oxyte	etracycline:							
Speci	es	: Rat						
LÕAE		: 198 mg/kg						
	ation Route	: Oral						
	sure time t Organs	: 13 Weeks : Bone						
Rema			t adverse effects were reported					
Speci		: Mouse						
LOAE		: 7,990 mg/kg						
	cation Route	: Oral						
	sure time t Organs	: 13 Weeks : Bone						
Rema			t adverse effects were reported					
Speci		: Dog						
NOAE		: 125 mg/kg						
LOAE	L cation Route	: 250 mg/kg : Oral						
	sure time	: 12 Months						
	t Organs	 Testis Significant toxicity observed in testing 						
Rema								
Speci		: Rat						
NOAE LOAE		: 40 mg/kg : 100 mg/kg						
	ation Route	: Intraperitonea	al					
	sure time	: 14 Days	-					
	t Organs	: Kidney						
Magn	esium oxide:							
Speci		: Rat						
NOAE		: >= 1,000 mg/	′kg					
	cation Route	: Ingestion						
Expos	sure time	: 28 Days : OECD Test 0	Luideline 407					
Rema			a from similar materials					
Sodiu	ım [2-[(2,6-dichloro	phenyl)amino]pheny	/l]acetate:					
Speci		: Rat	-					
LOAE		: 0.25 mg/kg						
	cation Route	: Oral						
	sure time	: 98 w	el treat. Diago human atia quata a l'ara D					
rarge	t Organs	: Gastrointestir	nal tract, Blood, lymphatic system, Liver, Prostat					
Speci		: Dog						
LOAE		: 1 mg/kg						
Application Route		: Oral : 12 w						
Expos	sure time	· 17W						



rsion	Revision Date: 30.09.2023		OS Number: 56033-00015	Date of last issue: 04.04.2023 Date of first issue: 17.04.2019					
Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms			 Baboon 0.5 mg/kg 5 mg/kg Oral 52 w Gastrointestinal tract, Blood constipation, Diarrhea 						
Sodium hydroxymethanesul			phinate:						
Species : NOAEL : Application Route : Exposure time : Method : Remarks :			Rat 600 mg/kg Ingestion 90 Days OECD Test Gui	Rat 600 mg/kg Ingestion					
-	ration toxicity lassified based on availa	ablo	information						
	rience with human exp								
Com	oonents:								
Oxyte	etracycline:								
Ingestion :			Symptoms: Gastrointestinal disturbance, tooth discoloration Remarks: May cause birth defects.						
Sodium [2-[(2,6-dichloropheny Ingestion			I)amino]phenyl]acetate: Symptoms: Abdominal pain, Diarrhea, constipation, heartburn, Ulceration, Dizziness, Headache, Breathing difficulties, Rash						
CTION	12. ECOLOGICAL INF	ORI	MATION						
Foot	oxicity								
ECOIL	JAIGILY								
	ponents:								
<u>Com</u>	-								
<u>Com</u> 2-Pyr	oonents:	:	Exposure time:	rio (zebra fish)): > 4,600 - 10,000 mg/l 96 h Test Guideline 203					
<u>Com</u> 2-Pyr Toxic Toxic	oonents: rolidone:	:	Exposure time: Method: OECD	96 h Test Guideline 203 magna (Water flea)): > 500 mg/l					
<u>Com</u> 2-Pyr Toxic Toxic aquat	ponents: trolidone: ity to fish ity to daphnia and other it invertebrates ity to algae/aquatic	:	Exposure time: Method: OECD EC50 (Daphnia Exposure time:	96 h Test Guideline 203 magna (Water flea)): > 500 mg/l 48 h desmus subspicatus (green algae)): > 500 mg/					
<u>Com</u> 2-Pyr Toxic Toxic aquat	ponents: trolidone: ity to fish ity to daphnia and other it invertebrates ity to algae/aquatic	::	Exposure time: Method: OECD EC50 (Daphnia Exposure time: ErC50 (Desmod Exposure time:	96 h Test Guideline 203 magna (Water flea)): > 500 mg/l 48 h desmus subspicatus (green algae)): > 500 mg/ 72 h esmus subspicatus (green algae)): 22.2 mg/l					



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				Method: OECD Test Guideline 209					
	Oxytet	racycline:							
	Toxicity to fish		:	LC50 (Oryzias lati Exposure time: 96 Method: OECD Te					
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te					
				EC50 (Daphnia m Exposure time: 48 Method: OECD Te					
	Toxicity plants	v to algae/aquatic	:	EC50 (Anabaena) Exposure time: 72					
				NOEC (Anabaena Exposure time: 72					
	Toxicity	to microorganisms	:	EC50: 17.9 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition				
				NOEC: 0.2 mg/l Exposure time: 3 Test Type: Respir Method: OECD To	ation inhibition				
	Magne	sium oxide:							
	Toxicity	v to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l S h on data from similar materials				
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h on data from similar materials				
	Toxicity plants	v to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction				
	Toxicity	to microorganisms	:	Exposure time: 3 Method: OECD Te	h				



Versi 5.1	ion	Revision Date: 30.09.2023		S Number: 56033-00015	Date of last issue: 04.04.2023 Date of first issue: 17.04.2019			
		n [2-[(2,6-dichlorophe / to fish	nyl)	nyl)amino]phenyl]acetate: : LC50 (Pimephales promelas (fathead minnow)): 166.6 n				
	Toxicity to daphnia and other aquatic invertebrates		•	Exposure time: 96 Method: OECD Te	h			
			:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te				
	Toxicity plants	v to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 72 Method: OECD Te				
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te				
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te				
á	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) Sodium hydroxymethanesu		:	NOEC (Daphnia m Exposure time: 21 Method: OECD Te				
:			lphi	nate:				
-	Toxicity	<i>t</i> to fish	:	Exposure time: 96	dus (Golden orfe)): > 10,000 mg/l h on data from similar materials			
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te				
	Toxicity plants	v to algae/aquatic	:	Exposure time: 72 Method: OECD Te				
	Toxicity icity)	v to fish (Chronic tox-	:	Exposure time: 35 Method: OECD Te				
á		v to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 21 Method: OECD Te				
-	Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 4 k				



/ersion 5.1	Revision Date: 30.09.2023		S Number: 56033-00015	Date of last issue: 04.04.2023 Date of first issue: 17.04.2019		
			Remarks: Base	d on data from similar materials		
Persi	istence and degrada	bility				
Com	ponents:					
2-Pyi	rrolidone:					
Biode	Biodegradability		Result: Readily Remarks: Base	biodegradable. d on data from similar materials		
Sodi	um hydroxymethane	sulphi	nate:			
Biodegradability		:	Result: Readily biodegradable. Biodegradation: 77 % Exposure time: 28 d Method: OECD Test Guideline 301B Remarks: Based on data from similar materials			
Bioa	ccumulative potentia	ıl				
<u>Com</u>	ponents:					
2-Pyi	rrolidone:					
	Partition coefficient: n- octanol/water		log Pow: -0.71 Method: OECD	Test Guideline 107		
Sodi	um [2-[(2,6-dichlorop	henyl)	amino]phenyl]	acetate:		
Partit	ion coefficient: n-	:	log Pow: 4.51			
	lity in soil ata available					
	r adverse effects ata available					
ECTION	13. DISPOSAL CON	SIDER	ATIONS			
Disp	osal methods					
-	e from residues	:		of waste into sewer. ccordance with local regulations.		
Conta	aminated packaging	:	Empty container handling site for	rs should be taken to an approved waste r recycling or disposal. specified: Dispose of as unused product.		
ECTION	14. TRANSPORT IN	FORM	ATION			
Inter	national Regulations	i				
UNR	-					
	-					

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	N:O:S.



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	Labels	g group nmentally hazardous	:	(oxytetracycline) 9 III 9 yes	
		-	:	(Oxytetracycline)	nazardous substance, liquid, n.o.s.
	Labels	g instruction (cargo	:	9 III Miscellaneous 964	
	ger aire Enviro	nmentally hazardous	:	964 yes	
	IMDG- UN nu Proper		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	Labels EmS C		::	(Oxytetracycline) 9 III 9 F-A, S-F yes	
	-	port in bulk according			OL 73/78 and the IBC Code
	Domes	stic regulation			
	UN nu	002-SCT mber shipping name	:	UN 3082 ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,

	N.O.S.
	(Oxytetracycline)
Class	: 9
Packing group	: 111
Labels	: 9

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/legislation specific for the substance or mixture

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for



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produ	icing capsules, tablets	and p	vills.	
The i AICS		oduct :	are reported in the not determined	he following inventories:
DSL		:	not determined	
IECS	С	:	not determined	
SECTION	16. OTHER INFORM		N	
	ion Date format	:	30.09.2023 dd.mm.yyyy	
E II 4	and aff ath an alchmanda	1		

Full text of other abbrevia	ations
ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NOM-010-STPS-2014	: Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting
	the Work Environment - Identification, Assessment and Con-
	trol - Appendix 1 Occupational Exposure Limits
ACGIH / TWA	: 8-hour, time-weighted average
NOM-010-STPS-2014 / VL	E- : Time weighted average limit value
PPT	

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



Oxytetracycline / Diclofenac Formulation

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

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

MX / Z8