according to the Globally Harmonized System



Oxytetracycline / Diclofenac Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
5.1	30.09.2023	4156031-00015	Date of first issue: 17.04.2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Oxytetracycline / Diclofenac Formulation
Manufacturer or supplier's d	eta	ils
Company	:	MSD
Address	:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207
Telephone	:	+1-908-740-4000
Emergency telephone number	:	+1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the ch	em	ical and restrictions on use
Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification

Skin corrosion/irritation	:	Category 3
Serious eye damage/eye irri- tation	:	Category 2B
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1A
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

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Haza	rd pictograms		!
Signa	al word	: Danger	• •
Hazard statements		H317 May cau H320 Causes H360FD May c H373 May cau Blood, lympha repeated expo	damage fertility. May damage the unborn child ise damage to organs (Gastrointestinal tract, tic system, Liver, Prostate) through prolonged
Preca	autionary statements	P260 Do not b P264+P265 W touch eyes. P272 Contami the workplace. P273 Avoid re	lease to the environment. otective gloves/ protective clothing/ eye protec-
		P302 + P352 P305 + P351 - for several mir easy to do. Co P318 F expos P333 + P317 P337 + P317	eed or concerned, get medical advice. f skin irritation or rash occurs: Get medical help f eye irritation persists: Get medical help. Take off contaminated clothing and wash it befo
		Storage:	
		P405 Store loc	neu up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
	r hazards which do r known.	not result in classifica	ition

Substance / Mixture

Components

: Mixture

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Chemical name	CAS-No.	Concentration (% w/w)
2-Pyrrolidone	616-45-5	>= 50 - < 70
oxytetracycline	79-57-2	>= 20 - < 25
Magnesium oxide	1309-48-4	>= 1 - < 5
Sodium [2-[(2,6- dichlorophenyl)amino]phenyl]acetate	15307-79-6	>= 1 - < 2.5
Sodium hydroxymethanesulphinate	6035-47-8	>= 0.1 - < 1

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.
In case of skin contact	:	Get medical attention. 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	:	Causes mild skin irritation. May cause an allergic skin reaction. Causes 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).
Notes to physician	:	Treat symptomatically and supportively.
5. FIREFIGHTING MEASURES		
Suitable extinguishing media	:	Water spray 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-	:	Carbon oxides Chlorine compounds
ucts		Nitrogen oxides (NOx)

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	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray to Remove undamag so.	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	
	Special protective equipment for firefighters		:	Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
6. A	CCIDEN	ITAL RELEASE MEAS	SUF	RES		
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).	
	Environ	nmental 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 o barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 		akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages	
		ls and materials for ment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remainin bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.	
7. H		IG AND STORAGE				
	Technic	cal measures	:		measures under EXPOSURE SONAL PROTECTION section.	
	Local/T	otal ventilation	:	If sufficient ventila	tion is unavailable, use with local exhaust	
	Advice	on safe handling	 ventilation. 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 practice, based on the results of the workplace exposu sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. 		ist or vapours. ghly after handling. ance with good industrial hygiene and safety in the results of the workplace exposure as- ghtly closed.	

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Conditions for sa Materials to avoi	environment afe storage : Keep in prop Store locked Keep tightly Store in acce	perly labelled containers. d up. closed. cordance with the particular national regulations. with the following product types:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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	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		

Components with workplace control parameters

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.
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Personal protective equipment

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
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.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye

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	place. When using do n Contaminated wo workplace. Wash contamina The effective ope engineering conta appropriate dego	

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
Initial boiling point and boiling range	:	100.5 °C
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1.15 - 1.19 (25 °C)
Density	:	No data available
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n-	:	Not applicable

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Auto Decc Visco V	nol/water -ignition temperature omposition temperature osity iscosity, dynamic iscosity, kinematic osive properties	 No data ava No data ava 50.3 - 50.7 r No data ava No data ava Not explosiv 	ilable nPa.s (25 °C) ilable
Mole	izing properties cular weight cle size	: The substan : No data ava : Not applicab	

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

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: > 5,000 mg/kg Method: Calculation method
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

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rsion	Revision Date: 30.09.2023		9S Number: 56031-00015	Date of last issue: 04.04.2023 Date of first issue: 17.04.2019
				est Guideline 402 substance or mixture has no acute dermal
oxyte	tracycline:			
Acute	oral toxicity	:	LD50 (Rat): 4,800	0 mg/kg
			LD50 (Mouse): 2 Remarks: Eviden	240 mg/kg ce of phototoxicity was observed
Acute	inhalation toxicity	:	Remarks: No dat	a available
Acute	dermal toxicity	:	Remarks: No dat	a available
	toxicity (other routes of istration)	:	LD50 (Rat): 4,840 Application Route	
			LD50 (Mouse): 3 Application Route	
Magn	esium oxide:			
Acute	oral toxicity	:	Assessment: The icity	000 mg/kg Test Guideline 423 e substance or mixture has no acute oral tox- on data from similar materials
Acute	inhalation toxicity	:		h
Sodiu	ım [2-[(2,6-dichlorophe	nvl)amino]phenyl]ac	cetate:
	oral toxicity		LD50 (Rat): 55 - 2	
			LD50 (Mouse): 1	70 - 389 mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 97 - Application Route	
			LD50 (Mouse): 92 Application Route	
Sodiu	Im hydroxymethanesu	lphi	nate:	
	oral toxicity	•	LD50 (Rat): > 5,0 Method: OECD T	00 mg/kg Test Guideline 423 on data from similar materials
Acute	dermal toxicity	:	LD50 (Rat): > 2,0	000 mg/kg Test Guideline 402

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		Devede Deveder d	
		Remarks: Based on d	ata from similar materials
	corrosion/irritation es mild skin irritation.		
Comp	oonents:		
2-Pyr	rolidone:		
Speci		: Rabbit	
Metho	bd	: OECD Test Guideline	404
Resul	t	: No skin irritation	
oxyte	tracycline:		
Rema	urks	: No data available	
Sodiu	ım [2-[(2,6-dichlorop	henyl)amino]phenyl]acetat	e:
Resul	t	: irritating	
Sodiu	ım hydroxymethane	sulphinate:	
Speci		: Rat	
0000			
Resul	t	: No skin irritation	
Resul Rema		: No skin irritation : Based on data from si	imilar materials
Rema	arks	: Based on data from si	imilar materials
Rema Serio		: Based on data from si	imilar materials
Rema Serio Cause	ırks us eye damage/eye	: Based on data from si	imilar materials
Rema Serio Cause <u>Comp</u>	irks us eye damage/eye es eye irritation.	: Based on data from si	imilar materials
Rema Serio Cause <u>Comp</u>	urks us eye damage/eye es eye irritation. ponents: rolidone:	: Based on data from si	imilar materials
Rema Serio Cause <u>Comp</u> 2-Pyr	urks us eye damage/eye es eye irritation. ponents: rolidone: es	: Based on data from si	
Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul	urks us eye damage/eye es eye irritation. ponents: rolidone: es	: Based on data from si rritation : Rabbit	
Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul	urks us eye damage/eye es eye irritation. <u>ponents:</u> rolidone: es t t	: Based on data from si rritation : Rabbit	
Rema Serio Cause Comp 2-Pyr Speci Resul oxyte Rema	arks us eye damage/eye es eye irritation. <u>ponents:</u> rolidone: es t t es t es t es t	: Based on data from si rritation : Rabbit : Irritation to eyes, reve	
Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul oxyte Rema Magn	arks us eye damage/eye es eye irritation. conents: rolidone: es t tracycline: arks esium oxide:	 : Based on data from si rritation : Rabbit : Irritation to eyes, reve : No data available 	
Rema Serio Cause Comp 2-Pyr Speci Resul oxyte Rema	arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es es t es es t es es t es es t es es es es es es es es es es	: Based on data from si rritation : Rabbit : Irritation to eyes, reve	rsing within 7 days
Rema Serio Cause Comp 2-Pyr Speci Resul oxyte Rema Magn Speci Metho Resul	arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t es t es es interime: es od t	 Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation 	rsing within 7 days 405
Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul oxyte Rema Magn Speci Metho	arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t es t es es interime: es od t	 : Based on data from si rritation : Rabbit : Irritation to eyes, reve : No data available : Rabbit : OECD Test Guideline 	rsing within 7 days
Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul Rema Speci Metho Resul Rema	arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t es t es it es od it arks	 Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation 	rsing within 7 days 405 imilar materials
Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul Rema Speci Metho Resul Rema	arks us eye damage/eye es eye irritation. <u>ponents:</u> rolidone: es t es t es t es it es pod it urks um [2-[(2,6-dichlorop	 Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation Based on data from si 	rsing within 7 days 405 imilar materials
Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul Rema Speci Metho Resul Rema Sodiu Resul	arks us eye damage/eye es eye irritation. ponents: rolidone: es t es t es bd t arks um [2-[(2,6-dichlorop t	 Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation Based on data from si 	rsing within 7 days 405 imilar materials
Rema Serio Cause Comp 2-Pyr Speci Resul Rema Speci Metho Resul Rema Sodiu Resul	arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t arks esium oxide: es od t arks um [2-[(2,6-dichlorop t um hydroxymethane	 Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation Based on data from si 	rsing within 7 days 405 imilar materials
Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul Rema Speci Metho Resul Rema Sodiu Resul	arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t es es od t arks um [2-[(2,6-dichlorop t um hydroxymethane es	 Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation Based on data from si 	405 imilar materials e:

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Rema	ırks	:	Based on data	from similar materials
Deen	instant on altin sons	410041		
-	iratory or skin sensi sensitisation	itisatio	n	
•	ause an allergic skin	reaction	on.	
•	iratory sensitisation assified based on ava		information.	
Comp	ponents:			
2-Pyr	rolidone:			
Test 7		:		ode assay (LLNA)
Speci	sure routes es	:	Skin contact Mouse	
Metho		:	OECD Test G	uideline 429
Resul	•	:	negative	
Rema	irks	:	Based on data	from similar materials
oxyte	tracycline:			
Test T Resul		:	Human repeat Sensitiser	insult patch test (HRIPT)
Magn	esium oxide:			
Test 7		:	Maximisation -	Test
Expos Speci	sure routes	:	Skin contact Guinea pig	
Metho		÷	OECD Test G	uideline 406
Resul		:	negative	
Rema	ırks	:	Based on data	from similar materials
Sodiu	ım hydroxymethane	sulph	inate:	
Test 7		:	Maximisation -	Test
	sure routes	:	Skin contact	
Speci Metho		:	Guinea pig OECD Test G	uideline 406
Resul		:	negative	
Rema	irks	:		from similar materials
Germ	cell mutagenicity			
Not cl	assified based on available	ailable	information.	
<u>Comp</u>	oonents:			
2-Pyr	rolidone:			
Geno	toxicity in vitro	:	Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES ve
				vitro mammalian cell gene mutation te D Test Guideline 476 ve
			10/2	3

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Geno	otoxicity in vivo	Test Type Method: (Result: ne	E Based on data from similar materials E: Chromosome aberration test in vitro DECD Test Guideline 473 Egative E: Mammalian erythrocyte micronucleus test (in vivo
Con		cytogene Species: Applicatio	tic assay) Mouse on Route: Intraperitoneal injection DECD Test Guideline 474
-	etracycline: otoxicity in vitro	Result: no	e: Mouse Lymphoma
		Result: pe Test Type Test syst Result: ee	e: sister chromatid exchange assay em: Chinese hamster ovary cells quivocal e: Chromosomal aberration
Gend	otoxicity in vivo	Species: Cell type: Applicatio Result: e Test Type Species:	Bone marrow on Route: Oral quivocal e: in vivo assay Mouse on Route: Intraperitoneal injection
	n cell mutagenicity - ssment	: Weight of cell muta	evidence does not support classification as a germ gen.
-	nesium oxide: otoxicity in vitro	Method: (Result: n Remarks Test Type Method: (Result: n	Based on data from similar materials Chromosome aberration test in vitro DECD Test Guideline 473

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sion	Revision Date: 30.09.2023	SDS Number 4156031-000	
		Method: C Result: ne	e: In vitro mammalian cell gene mutation test DECD Test Guideline 476 egative Based on data from similar materials
Sodiu	um [2-[(2,6-dichlorop	henyl)amino]ph	enyl]acetate:
Geno	toxicity in vitro	: Test Type Result: ne	e: Bacterial reverse mutation assay (AMES) egative
		Test Type Result: ne	e: Mouse Lymphoma egative
Geno	toxicity in vivo	: Test Type Species: (Result: ne	
Sodiı	um hydroxymethane	sulphinate:	
Geno	toxicity in vitro	Method: C Result: ne	e: Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 egative Based on data from similar materials
Geno	toxicity in vivo	: Test Type cytogenet Species: I Applicatio Method: C Result: po	e: Mammalian erythrocyte micronucleus test (in vivo ic assay) Mouse n Route: Intraperitoneal injection DECD Test Guideline 474
	i cell mutagenicity - ssment		esult(s) from in vivo mammalian somatic cell muta-
Not c	i nogenicity lassified based on ava ponents:	ailable informatior	۱.
•	rolidone:		
	cation Route sure time It	: Mouse : Ingestion : 18 monthe : negative : Based on	(s) data from similar materials
oxyte	etracycline:		
Speci		: Mouse	
	cation Route sure time	: Oral : 104 week	S

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	Species Applica Exposu Result Target Remark	tion Route ire time Organs	:	Rat Oral 103 weeks equivocal Adrenal gland, Pi The mechanism o mans.	tuitary gland or mode of action may not be relevant in hu-
	Carcino ment	ogenicity - Assess-	:	Weight of evidend cinogen	ce does not support classification as a car-
	Species	tion Route ire time	:	Mouse Ingestion 96 weeks negative Based on data fro	om similar materials
	Species Applica Exposu Result Species	tion Route re time s tion Route	enyl)amino]phenyl]ac Rat Oral 2 Years negative Mouse Oral 2 Years negative	etate:
	-	luctive toxicity mage fertility. May dar onents:	mag	e the unborn child.	
	-	on fertility	:	Species: Rat Application Route Result: positive	generation reproduction toxicity study e: Ingestion on data from similar materials
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: positive	vo-foetal development e: Ingestion
	Reprod sessme	uctive toxicity - As- ent	:	ity, based on anir	f adverse effects on sexual function and fertil- nal experiments., Clear evidence of adverse pment, based on animal experiments.

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-	racycline: s on fertility	Species: Rat Application Route Fertility: NOAEL: Result: No effects	eneration reproduction toxicity study : Oral 18 mg/kg body weight on fertility, No effect on reproduction capac- adverse effects were reported
Effects	s on foetal develop-	Species: Rat Application Route Embryo-foetal toxi Result: Postimplan Test Type: Embry Species: Rat Application Route General Toxicity N	icity: LOAEL: 48 mg/kg body weight ntation loss., Skeletal malformations o-foetal development : Oral //aternal: LOAEL: 1,200 mg/kg body weight icity: NOAEL: 1,500 mg/kg body weight
		Remarks: Materna Test Type: Embry Species: Mouse Application Route General Toxicity M Embryo-foetal toxi Result: No teratog Remarks: Materna	al toxicity observed. o-foetal development : Oral Aaternal: LOAEL: 1,325 mg/kg body weight icity: NOAEL: 2,100 mg/kg body weight jenic effects al toxicity observed. o-foetal development
		Embryo-foetal toxi Result: Postimplan Test Type: Embry Species: Dog Application Route Embryo-foetal toxi Result: Skeletal an	icity: LOAEL: 41.5 mg/kg body weight ntation loss., No foetal abnormalities o-foetal development : Intramuscular icity: LOAEL: 20.75 mg/kg body weight nd visceral variations, Postimplantation loss.
Reproo sessm	ductive toxicity - As- ent	Positive evidence human epidemiolo	of adverse effects on development from ogical studies.
-	esium oxide: s on fertility	reproduction/deve Species: Rat Application Route Method: OECD Te Result: negative	

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	Effects ment	on foetal develop-	:	reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	
	Sodiur	n [2-[(2,6-dichlorophe	enyl)amino]phenyl]ac	etate:
	Effects	on fertility	:	Test Type: Fertilit Species: Rat, mal Application Route Fertility: NOAEL: Result: No effects	e and female : Oral 4 mg/kg body weight
	Effects ment	on foetal develop-	:	Result: Embryo-fo Test Type: Develo Species: Rabbit Application Route Developmental To	: Oral oxicity: LOAEL: 1 mg/kg body weight oetal toxicity, No teratogenic effects opment :: Oral oxicity: LOAEL: 5 mg/kg body weight
	•	luctive toxicity - As-	:	·	betal toxicity, No teratogenic effects naging the unborn child.
	sessme	n hydroxymethanesu	Inh	inate [.]	
		on fertility	:	Test Type: Combi reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	
	Effects ment	on foetal develop-	:	Species: Rat Application Route Method: OECD To Result: positive	
	Reprod sessme	luctive toxicity - As- ent	:	Some evidence o animal experimen	f adverse effects on development, based on tts.

STOT - single exposure

Not classified based on available information.

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Oxytetracycline / Diclofenac Formulation

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

Repeated dose toxicity

Components:

2-Pyrrolidone:

2-Pyrrolidone:	
Species NOAEL Application Route Exposure time Method	 Rat 207 mg/kg Ingestion 3 Months OECD Test Guideline 408
oxytetracycline:	
Species LOAEL Application Route Exposure time Target Organs Remarks	 Rat 198 mg/kg Oral 13 Weeks Bone No significant adverse effects were reported
Species LOAEL Application Route Exposure time Target Organs Remarks	Mouse 7,990 mg/kg Oral 13 Weeks Bone No significant adverse effects were reported
Species NOAEL LOAEL Application Route Exposure time Target Organs Remarks	Dog 125 mg/kg 250 mg/kg Oral 12 Months Testis Significant toxicity observed in testing
Species NOAEL LOAEL Application Route Exposure time Target Organs	Rat 40 mg/kg 100 mg/kg Intraperitoneal 14 Days Kidney
Magnesium oxide:	

Magnesium oxide:

according to the Globally Harmonized System



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Spec		:	Rat	
NOA		:	>= 1,000 mg/kg	
	ication Route		Ingestion	
Meth	osure time	:	28 Days OECD Test Guide	alina 407
Rem		:		om similar materials
_		_		
	um [2-[(2,6-dichlorop	henyl		etate:
Spec		:	Rat	
LOA		:	0.25 mg/kg	
	ication Route	:	Oral	
	sure time	÷	98 W	reat Diagod humahatia ayatam Liyar Draatata
Targ	et Organs	:	Gastrointestinal ti	act, Blood, lymphatic system, Liver, Prostate
Spec		:	Dog	
LOA		:	1 mg/kg	
	ication Route	:	Oral	
•	osure time	:	12 w	
Targ	et Organs	:	Blood	
Spec	cies	:	Baboon	
NOA	EL	:	0.5 mg/kg	
LOA		:	5 mg/kg	
	ication Route	:	Oral	
	osure time	:	52 w	
	et Organs	:	Gastrointestinal t	
Sym	ptoms	:	constipation, Diar	rhoea
Sodi	um hydroxymethane	sulph	inate:	
Spec			Rat	
NOA		:	600 mg/kg	
-	ication Route		Ingestion	
	sure time		90 Days	
Meth			OECD Test Guid	eline 408
Rem	arks	:		om similar materials
, -				
-	ration toxicity	- il a b l	:	
	classified based on ava			
Expe	erience with human e	xposi	ıre	
<u>Com</u>	ponents:			
oxyt	etracycline:			
Inge	stion	:		ointestinal disturbance, tooth discoloration use birth defects.
Sodi	um [2-[(2,6-dichlorop	henyl)amino]phenyl]ad	etate:
Inge		:	Symptoms: Abdo	minal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties,

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:		
2-Pyrrolidone: Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 4,600 - 10,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l Exposure time: 72 h
		EC10 (Desmodesmus subspicatus (green algae)): 22.2 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209
oxytetracycline:		
Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 110 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 621 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		EC50 (Daphnia magna (Water flea)): 669 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Anabaena): 0.032 mg/l Exposure time: 72 h
		NOEC (Anabaena): 0.0031 mg/l Exposure time: 72 h
M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to microorganisms	:	EC50: 17.9 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209

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				NOEC: 0.2 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
	M-Facto toxicity)	or (Chronic aquatic	:	10	
	Magnes	sium oxide:			
	Toxicity		:	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	to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction
	Toxicity	to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Method: OECD Te Remarks: Based o	
	Sodium	ı [2-[(2,6-dichlorophe	nvľ)aminolphenyllac	etate.
	Toxicity		:		s promelas (fathead minnow)): 166.6 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.32 mg/l Exposure time: 32 Species: Pimepha Method: OECD Te	ales promelas (fathead minnow)

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		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 10 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	Sodium Toxicity	hydroxymethanesu to fish	lphi :	LC50 (Leuciscus i Exposure time: 96	idus (Golden orfe)): > 10,000 mg/l S h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 4 Remarks: Based o	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 13.5 mg/l Exposure time: 35 Species: Danio re Method: OECD Te Remarks: Based of	rio (zebra fish)
		to daphnia and other invertebrates (Chron- ty)	:	Method: OECD Te	magna (Water flea)
	Persist	ence and degradabili	ity		
	<u>Compo</u>	nents:			
	2-Pyrro Biodegr	lidone: adability	:	Result: Readily bio Remarks: Based o	odegradable. on data from similar materials
		hydroxymethanesu adability	lphi :	Result: Readily bio Biodegradation: 7 Exposure time: 28 Method: OECD Te	77 %

ger aircraft)

Environmentally hazardous : yes

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Bioa	ccumulative potential						
Com	ponents:						
2-Pv	rrolidone:						
Partit	tion coefficient: n- nol/water	: log Pow: -0.71 Method: OECD Test Guideline 107					
Sodi	Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:						
Partit	tion coefficient: n- nol/water	: log Pow: 4.51					
	i lity in soil ata available						
••	r adverse effects ata available						
3. DISPO	OSAL CONSIDERATIO	S					
		-					
Disp	osal methods						
Wast	e from residues	: Do not dispose of waste into sewer.					
Conta	aminated packaging	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 					
I. TRAN	SPORT INFORMATION						
Inter	national Regulations						
UNR	TDG						
	umber er shipping name	 : UN 3082 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxytetracycline) 					
Class	3	: 9					
	ing group	:					
Labe Envir	is onmentally hazardous	: 9 : yes					
	-DGR						
		: UN 3082					
Prope	er shipping name	: Environmentally hazardous substance, liquid, n.o.s. (oxytetracycline)					
Class		: 9					
Pack Labe	ing group Is	: III : Miscellaneous					
	ing instruction (cargo	: 964					
Pack	ing instruction (passen-	: 964					

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IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(oxytetracycline)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
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.

15. REGULATORY INFORMATION

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

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

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

16. OTHER INFORMATION

Revision Date		30.09.2023			
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 Agency, http://echa.europa.eu/			
Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
ACGIH / TWA	:	8-hour, time-weighted average			

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

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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.

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