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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name :	Oxytetracycline / Diclofenac Liquid Formulation	
Manufacturer or supplier's detail	ails	
Company name of supplier :	MSD	
Address :	126 E. Lincoln Avenue	
	Rahway, New Jersey U.S.A. 07065	
Telephone :	908-740-4000	
Emergency telephone :	1-908-423-6000	
E-mail address	EHSDATASTEWARD@msd.com	
Recommended use of the chemical and restrictions on use		
Recommended use : Restrictions on use :	Veterinary product Not applicable	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage/eye irritation	:	Category 2A
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 1A
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H360FD May damage fertility. May damage the unborn child.
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response:



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		P305 + P351 + F for several minut to do. Continue of P308 + P313 IF attention. P333 + P313 If s attention. P337 + P313 If s tion.	ON SKIN: Wash with plenty of water. P338 IF IN EYES: Rinse cautiously with water tes. Remove contact lenses, if present and easy rinsing. exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical advice/ eye irritation persists: Get medical advice/ atten- ke off contaminated clothing and wash it before
		Storage: P405 Store lock	ed up.
		Disposal:	
		P501 Dispose of posal plant.	f contents/ container to an approved waste dis-
Other	hazards		
None	known.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture		
Components		
Chemical name	CAS-No.	Concentration (% w/w)
2-Pyrrolidone	616-45-5	>= 30 -< 50
Oxytetracycline	79-57-2	>= 20 -< 30
Benzyl alcohol	100-51-6	>= 1 -< 5
Magnesium oxide	1309-48-4	>= 1 -< 5
Sodium [2-[(2,6-	15307-79-6	>= 0.1 -< 1
dichlorophenyl)amino]phenyl]acetate		
Sodium hydroxymethanesulphinate	149-44-0	>= 0.1 -< 1

SECTION 4. FIRST AID MEASURES

General advice	advice im	e of accident or if you feel unwell, seek medical mediately. nptoms persist or in all cases of doubt seek medical
If inhaled		remove to fresh air. cal attention.
In case of skin contact	of water. Remove o Get medio Wash clot	contact, immediately flush skin with soap and plenty contaminated clothing and shoes. cal attention. hing before reuse. ly clean shoes before reuse.
In case of eye contact	: In case of	contact, immediately flush eyes with plenty of water



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If swallowed Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician			::	for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility. May damage the unborn child. 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			ASL	IRES		
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuitable extinguishing : media		:	None known.		
	Specific fighting	c hazards during fire	:	Exposure to comb	oustion products may be a hazard to health.	
	Hazard ucts	lous combustion prod-	: Carbon oxides Nitrogen oxides (NOx)		NOx)	
	Specifio ods	c extinguishing meth-	:	cumstances and t Use water spray t	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:In the event of fire, wear self-contained breathing apparatus.for fire-fightersUse personal protective equipment.

Evacuate area.

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. 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.



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	ods and materials for ainment and cleaning up	For large spills containment to can be pumped container. Clean up rema absorbent. Local or nation disposal of this employed in th determine whic Sections 13 an	nert absorbent material. , provide diking or other appropriate keep material from spreading. If diked material d, store recovered material in appropriate ining materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to ch regulations are applicable. d 15 of this SDS provide information regarding national 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 exhaus ventilation.	st
Advice on safe handling	Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and saf practice, based on the results of the workplace exposure assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to environment.	
Hygiene measures	If exposure to chemical is likely during typical use, provide 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 th workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review o engineering controls, proper personal protective equipmen appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.	he If
Conditions for safe storage	Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations	S.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides	



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Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

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/m ³	ACGIH
Sodium [2-[(2,6- dichloro- phenyl)amino]phenyl]acetate	15307-79-6	TWA	100 μg/m3 (OEB 2)	Internal
	Further information: 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.
Personal protective equipme	nt	
Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapor type
Hand protection Material	:	Chemical-resistant gloves
Eye protection	:	Wear safety glasses with side shields or goggles.

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
Skin and body protection	:	potential for direct contact to the face with dusts, mists, or aerosols. Work uniform or laboratory coat.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid



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	Color		:	light brown	
	Odor		:	No data available	
	Odor T	hreshold	:	No data available	
	рН		:	8.3 - 9.0 (as aqueous solu	tion)
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	1.05 - 1.18 g/cm ³	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n-	:	No data available	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	47.62 mm²/s	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.



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Mole	cular weight	:	No data availab	le
	Particle characteristics Particle size		: Not applicable	
SECTION	10. STABILITY AND RE	EAC	TIVITY	
SECTION				s a reactivity hazard.
Read				
Reac Cher	tivity	:	Not classified as Stable under no	
Reac Chen Poss tions	tivity nical stability	:	Not classified as Stable under no	rmal conditions.
Read Chen Poss tions Cond	tivity nical stability ibility of hazardous reac-	:	Not classified as Stable under no Can react with s	rmal conditions. strong oxidizing agents.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact Ingestion Eye contact						
Acute toxicity						
Not classified based on ava	ailable	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 Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity				
Oxytetracycline:						
Acute oral toxicity	:	LD50 (Rat): 4,800 mg/kg				
		LD50 (Mouse): 2,240 mg/kg Remarks: Evidence of phototoxicity was observed				
Acute inhalation toxicity	:	Remarks: No data available				



ersion)	Revision Date: 28.09.2024		9S Number: 13815-00019	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
Acute	e dermal toxicity		Remarks: No data	available
	e toxicity (other routes of histration)	:	LD50 (Rat): 4,840 Application Route	
			LD50 (Mouse): 3,4 Application Route	
Benz	yl alcohol:			
Acute	e oral toxicity	:	LD50 (Rat): 1,200) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5.4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala tion toxicity	
Magr	esium oxide:			
	e oral toxicity	:	icity	
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	
II Sodiu	um [2-[(2,6-dichlorophe	nyľ)amino]phenyl]ac	etate:
	oral toxicity		LD50 (Rat): 55 - 2	
			LD50 (Mouse): 17	′0 - 389 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 97 - 1 Application Route	
			LD50 (Mouse): 92 Application Route	
Sodiu	um hydroxymethanesul	lphi	nate:	
	oral toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te	



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				est Guideline 402 substance or mixture has no acute dermal
_	corrosion/irritation			
	assified based on avail conents:	able	information.	
	rolidone:			
Specie Metho Resul	es od	:	Rabbit OECD Test Guid No skin irritation	eline 404
Oxyte	etracycline:			
Rema		:	No data available	
Benzy	yl alcohol:			
Speci Metho Resul	es od	:	Rabbit OECD Test Guide No skin irritation	eline 404
Sodiu Resul	ım [2-[(2,6-dichloroph t	eny :	l)amino]phenyl]ac irritating	etate:
Sodiu	Im hydroxymethanes	ulph	inate:	
Specie Resul		:	Rat No skin irritation	
	us eye damage/eye ir		ion	
	oonents:			
2-Pyr	rolidone:			
Speci Resul		:	Rabbit Irritation to eyes,	reversing within 7 days
Oxyte Rema	e tracycline: ırks	:	No data available	9
Benzy	yl alcohol:			
Specie Resul Metho	es t	:	Rabbit Irritation to eyes, OECD Test Guid	reversing within 21 days eline 405



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Ма	gnesium oxide:							
Spe Res Met	ecies	 Rabbit No eye irritation OECD Test Guideline 405 Based on data from similar materials 						
Soc	lium [2-[(2,6-dichlorop	enyl)amino]phenyl]acetate:						
Res	sult	: Mild eye irritation						
Soc	dium hydroxymethane	ulphinate:						
Spe		: Rabbit						
Res		: No eye irritation						
Met	thod	: OECD Test Guideline 405						
Res	spiratory or skin sensi	zation						
Ski	n sensitization							
Ма	y cause an allergic skin	eaction.						
	spiratory sensitization classified based on ava	able information.						
<u>Co</u>	nponents:							
2-P	yrrolidone:							
	t Type	: Local lymph node assay (LLNA)						
	utes of exposure	: Skin contact						
	ecies thod	: Mouse : OECD Test Guideline 429						
Res		: negative						
	marks	: Based on data from similar materials						
Oxy	vtetracycline:							
Tes Res	st Type Sult	Human repeat insult patch test (HRIPT)Sensitizer						
Ber	nzyl alcohol:							
Tes	t Type	: Human repeat insult patch test (HRIPT)						
	ites of exposure	: Skin contact						
Spe		: Humans : positive						
Ass	essment	: Probability or evidence of low to moderate skin sensitiz rate in humans	ation					
Ma	gnesium oxide:							
	st Type	: Maximization Test						
Rou	utes of exposure	: Skin contact						
Spe	ecies	: Guinea pig						



Test Ty Routes Species	s n hydroxymethane	: negative : Based on da	Guideline 406 ata from similar materials				
Test Ty Routes Species	ре	sulphinate:					
Routes Species							
Method Result	6	: Skin contact : Guinea pig	Maximization Test Skin contact Guinea pig OECD Test Guideline 406				
Germ c	ell mutagenicity						
Not clas <u>Compo</u>	ssified based on ava	ailable information.					
2-Pyrro							
	xicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative				
		Method: OE Result: nega	n vitro mammalian cell gene mutation test CD Test Guideline 476 ative ased on data from similar materials				
			Chromosome aberration test in vitro CD Test Guideline 473 ative				
Genoto	xicity in vivo	cytogenetic Species: Mo Application	buse Route: Intraperitoneal injection CD Test Guideline 474				
Oxytetr	acycline:						
	xicity in vitro	: Test Type: N Result: nega	Microbial mutagenesis assay (Ames test) ative				
			Mouse Lymphoma ctivation: Metabolic activation tive				
			sister chromatid exchange assay a: Chinese hamster ovary cells vocal				
		Test Type: (Result: nega	Chromosomal aberration ative				
Genoto	xicity in vivo	: Test Type: M	Micronucleus test				



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		Cell ty Applic	es: Mouse vpe: Bone m ation Route t: equivocal			
		Speci Applic	ype: in vivo es: Mouse ation Route t: negative	assay : Intraperitoneal injection		
	n cell mutagenicity - ssment		nt of evidenc utagen.	e does not support classification as a germ		
Benz	yl alcohol:					
	otoxicity in vitro		ype: Bacter t: negative	ial reverse mutation assay (AMES)		
Geno	otoxicity in vivo	cytoge Speci Applic	: Test Type: Mammalian erythrocyte micronucleus cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative			
II Maqu	nesium oxide:					
	otoxicity in vitro	Metho Resul	d: OECD Te t: negative	ial reverse mutation assay (AMES) est Guideline 471 on data from similar materials		
		Metho Resul	d: OECD Te t: negative	osome aberration test in vitro est Guideline 473		
		Rema	rks: Based o	on data from similar materials		
		Metho Resul	Test Type: In vitro mammalian cell gene mutation tes Method: OECD Test Guideline 476 Result: negative			
		Rema	rks: Based (on data from similar materials		
Sodi	um [2-[(2,6-dichloroph	enyl)aminc]phenyl]ac	etate:		
	ptoxicity in vitro	: Test T		ial reverse mutation assay (AMES)		
			ype: Mouse t: negative	Lymphoma		
Geno	otoxicity in vivo	Speci	ype: Chrom es: CHO t: negative	osomal aberration		

Sodium hydroxymethanesulphinate:



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Gei	Genotoxicity in vitro		Test Type: Bacter Method: OECD Te Result: negative	ial reverse mutation assay (AMES) est Guideline 471
			Test Type: In vitro Method: OECD Te Result: positive	o mammalian cell gene mutation test est Guideline 476
Gei	notoxicity in vivo	:	cytogenetic assay Species: Mouse	: Intraperitoneal injection
	rm cell mutagenicity - sessment	:	Positive result(s) f genicity tests.	irom in vivo mammalian somatic cell muta-
	rcinogenicity			
Not	classified based on availa	ble	information.	
<u>Co</u>	<u>mponents:</u>			
2-P	yrrolidone:			
	ecies	:	Mouse	
	blication Route	:	Ingestion	
	oosure time sult	÷	18 month(s) negative	
	marks	:	0	m similar materials
0	status augustis au			
	ytetracycline:		Maura	
	ecies blication Route	:	Mouse Oral	
	posure time	:	104 weeks	
Res		:	negative	
Spe	ecies		Rat	
	plication Route	÷	Oral	
	oosure time	:	103 weeks	
	sult	:	equivocal	
	get Organs	:	Adrenal gland, Pit	
Rei	marks	:	I he mechanism o mans.	r mode of action may not be relevant in hu-
Cai me	cinogenicity - Assess- nt	:	Weight of evidenc cinogen	e does not support classification as a car-
Bei	nzyl alcohol:			
	ecies	:	Mouse	
	blication Route	:	Ingestion	
	oosure time	:	103 weeks	
Me	thod	:	OECD Test Guide	eline 451



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Result		:	negative	
	esium oxide:			
	ation Route ure time		Mouse Ingestion 96 weeks negative Based on data fro	m similar materials
	m [2-[(2,6-dichlorophe	enyl)amino]phenyl]ac	etate:
	ation Route ure time	: :	Rat Oral 2 Years negative	
	ation Route ure time	:	Mouse Oral 2 Years negative	
May da	ductive toxicity amage fertility. May dar <u>onents:</u>	nag	e the unborn child.	
	olidone:			
	s on fertility	:	Species: Rat Application Route Result: positive	eneration reproduction toxicity study : Ingestion on data from similar materials
Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: positive	ro-fetal development : Ingestion
Reprod sessm	ductive toxicity - As- ent	:	fertility, based on	adverse effects on sexual function and animal experiments., Clear evidence of n development, based on animal
Oxyte	tracycline:			
Effects	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 ificant adverse effects were reported
Effects	s on fetal development	:	Test Type: Embry	ro-fetal development



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				e: Oral city.: LOAEL: 48 mg/kg body weight intation loss., Skeletal malformations.
			Species: Rat Application Route General Toxicity Embryo-fetal toxic Result: No terato	Maternal: LOAEL: 1,200 mg/kg body weight city.: NOAEL: 1,500 mg/kg body weight
			Species: Mouse Application Route General Toxicity Embryo-fetal toxic Result: No terato	Maternal: LOAEL: 1,325 mg/kg body weight city.: NOAEL: 2,100 mg/kg body weight
			Species: Rabbit Application Route Embryo-fetal toxi	vo-fetal development e: Intramuscular city.: LOAEL: 41.5 mg/kg body weight antation loss., No fetal abnormalities.
			Species: Dog Application Route Embryo-fetal toxi	vo-fetal development e: Intramuscular city.: LOAEL: 20.75 mg/kg body weight and visceral variations ., Postimplantation
Repr sessi	oductive toxicity - As- ment	:	Positive evidence human epidemiol	e of adverse effects on development from ogical studies.
Benz	yl alcohol:			
	ts on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development e: Ingestion on data from similar materials
Effec	ts on fetal development	: Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Result: negative		
Magr	nesium oxide:			
	ts on fertility	:		ined repeated dose toxicity study with the elopmental toxicity screening test



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	Effects on fetal development		Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials		
E			 Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials 		
	odium [2-[(2,6-dichlorophe	envľ	aminolphenyllac	etate.	
	Effects on fertility	:	Test Type: Fertilit Species: Rat, mal Application Route	y e and female : Oral 4 mg/kg body weight	
E	Effects on fetal development			: Oral oxicity: LOAEL: 1 mg/kg body weight etal toxicity., No teratogenic effects.	
			Species: Rabbit Application Route Developmental To		
	Reproductive toxicity - As- essment	:	Suspected of damaging the unborn child.		
S	odium hydroxymethanesu	lphi	nate:		
	ffects on fertility	:	Test Type: Comb		
E	Effects on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: positive		
	Reproductive toxicity - As- essment	:	Some evidence o animal experimen	f adverse effects on development, based on ts.	



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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Components:

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

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

Repeated dose toxicity

Components:

2-Pyrrolidone:

Species	: Rat
NOAEL	: 207 mg/kg
Application Route	: Ingestion
Exposure time	: 3 Months
Method	: OECD Test Guideline 408
Method	: OECD Test Guideline 408

Oxytetracycline:

Target Organs

Species	: Rat
LÓAEL	: 198 mg/kg
Application Route	: Oral
Exposure time	: 13 Weeks
Target Organs	: Bone
Species LOAEL Application Route Exposure time Target Organs Remarks	: 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	: Rat : 40 mg/kg : 100 mg/kg : Intraperitoneal : 14 Days

: 14 Days :



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	yl alcohol:						
Speci		: Rat					
NOA		: 1.072 mg/l					
	cation Route	: inhalation (dust	/mist/fume)				
	sure time	: 28 Days					
Metho	bd	: OECD Test Gui	deline 412				
Magr	nesium oxide:						
Speci	ies	: Rat					
NOAI	EL	: >= 1,000 mg/kg					
	cation Route	: Ingestion					
Expo	sure time	: 28 Days					
Metho		: OECD Test Gui					
Rema	arks	: Based on data	rom similar materials				
Sodiu	um [2-[(2,6-dichloro	ohenyl)amino]phenyl]a	acetate:				
Spec		: Rat					
LOAE		: 0.25 mg/kg					
	cation Route	: Oral					
Expo	sure time	: 98 w					
	et Organs	: Gastrointestinal	tract, Blood, lymphatic system, Liver, Prostate				
Spec	ies	: Dog					
LÒAE		: 1 mg/kg					
Applie	cation Route	: Oral					
	sure time	: 12 w	12 w				
Targe	et Organs	: Blood	Blood				
Speci		: Baboon					
NOA		: 0.5 mg/kg					
LOAE		: 5 mg/kg					
Applie	cation Route	: Oral					
Expo	sure time	: 52 w					
Targe	et Organs	: Gastrointestinal					
Symp	otoms	: constipation, Di	arrhea				
Sodiu	um hydroxymethane	esulphinate:					
Speci	ies	: Rat					
NOA							
	cation Route	: 600 mg/kg : Ingestion					
	sure time		: 13 Weeks				
EXDO	Sule lille						

Aspiration toxicity

Not classified based on available information.



ersion 0	Revision Date: 28.09.2024	-	S Number: 13815-00019	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
Expe	rience with human exp	osi	re	
<u>Comp</u>	oonents:			
Oxyte	etracycline:			
Ingest	tion	:		rointestinal disturbance, tooth discoloration ause birth defects.
	ım [2-[(2,6-dichlorophe	enyl		
Ingest	tion	:		ominal pain, Diarrhea, constipation, heartburn ness, Headache, Breathing difficulties, Rash
ECTION	12. ECOLOGICAL INFO	ORI	IATION	
Ecoto	oxicity			
<u>Comp</u>	oonents:			
2-Pyr	rolidone:			
Toxici	ity to fish	:	Exposure time: 9	o (zebra fish)): > 4,600 - 10,000 mg/l 6 h Test Guideline 203
	ity to daphnia and other ic invertebrates	r : EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h		
Toxici plants	ity to algae/aquatic	:	ErC50 (Desmode Exposure time: 7	esmus subspicatus (green algae)): > 500 mg 2 h
			EC10 (Desmode Exposure time: 7	smus subspicatus (green algae)): 22.2 mg/l 2 h
Toxici	ity to microorganisms	:	EC50: > 1,000 m Exposure time: 3 Method: OECD 1	
Oxyte	etracycline:			
	ity to fish	:	Exposure time: 9	tipes (Japanese medaka)): 110 mg/l 6 h ⁻ est Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 621 mg/l 8 h ⁻ est Guideline 202
			Exposure time: 4	nagna (Water flea)): 669 mg/l 8 h ⁻ est Guideline 202
Toxici plants	ity to algae/aquatic	:	EC50 (Anabaena Exposure time: 7	



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				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 h Test Type: Respiration inhibition Method: OECD Test Guideline 209			
	Bonzvl	alcohol:					
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l s h		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te			
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te			
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te			
á		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te			
	Magne	sium oxide:					
	Toxicity		:	Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l 5 h on data from similar materials		
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l 5 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	:	EC50: > 100 mg/l			



rsion	Revision Date: 28.09.2024		9S Number: 13815-00019	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
				h est Guideline 209 on data from similar materials
	um [2-[(2,6-dichlorophe ity to fish	enyl :	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 166.6 mg/l
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 80.1 mg/l 8 h ⁻ est Guideline 202
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 72	chneriella subcapitata (green algae)): 71.9 2 h ^c est Guideline 201
			mg/l Exposure time: 72	irchneriella subcapitata (green algae)): 49.2 2 h ⁻ est Guideline 201
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 3	les promelas (fathead minnow)): 0.32 mg/l 2 d ⁻ est Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Method: OECD Test Guideline 211	
II Sodiu	ım hydroxymethanesu	lphi	nate:	
	ity to fish	:		idus (Golden orfe)): > 10,000 mg/l 6 h
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h ⁻ est Guideline 202
Toxici plants	ity to algae/aquatic	:	Exposure time: 72	esmus subspicatus (green algae)): 370 mg/l 2 h ⁻ est Guideline 201
			Exposure time: 72	esmus subspicatus (green algae)): 10 mg/l 2 h ⁻ est Guideline 201
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 3	io (zebra fish)): 13.5 mg/l 5 d Fest Guideline 210
Toxici	ity to daphnia and other	:	EC10 (Daphnia n	nagna (Water flea)): 8 mg/l



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aqua ic tox	tic invertebrates (Chron- icity)		Exposure time: 21 Method: OECD Te		
Toxic	sity to microorganisms	:	NOEC: 10 mg/l Exposure time: 4 h		
Pers	istence and degradabili	ty			
<u>Com</u>	ponents:				
2-Py	rrolidone:				
Biode	egradability	:	Result: Readily bio Remarks: Based of	odegradable. on data from similar materials	
Benz	yl alcohol:				
Biode	egradability	:	Result: Readily bio Biodegradation: S Exposure time: 14	92 - 96 %	
Sodi	um hydroxymethanesul	phi	inate:		
Biode	egradability	:	Result: Readily bio Biodegradation: 7 Exposure time: 28 Method: OECD Te	77 %	
Bioa	ccumulative potential				
Com	ponents:				
	rrolidone:				
Partit	tion coefficient: n- nol/water	:	log Pow: -0.71 Method: OECD Te	est Guideline 107	
Benz	yl alcohol:				
	tion coefficient: n- nol/water	:	log Pow: 1.05		
	um [2-[(2,6-dichlorophe			etate:	
	tion coefficient: n- nol/water	:	log Pow: 4.51		
	um hydroxymethanesul	-			
	tion coefficient: n- nol/water	:	log Pow: < 0.3		
	i lity in soil ata available				
	r adverse effects ata available				



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	 Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxytetracycline)
Class Packing group Labels Environmentally hazardous	: :	9 III 9 yes
IATA-DGR UN/ID No. Proper shipping name	:	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Oxytetracycline)
Class Packing group Labels Packing instruction (cargo aircraft)		9 III Miscellaneous 964 964
Packing instruction (passen- ger aircraft) Environmentally hazardous	:	yes
IMDG-Code UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Oxytetracycline)
Class Packing group Labels EmS Code Marine pollutant	: : : :	9 III 9 F-A, S-F yes

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

Not applicable for product as supplied.

Domestic regulation

NOM-002-SCT

UN number : UN 3082



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Proper shipping name		N.O.S.	: ENVIRONMENTALLY 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 producing capsules, tablets and pills.

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

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

SECTION 16. OTHER INFORMATION

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

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and



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Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified: Nch - Chilean Norm: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

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

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.

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