



Versio 5.1	n Revision Date: 2023/09/30		S Number: 56030-00015	Date of last issue: 2023/04/04 Date of first issue: 2019/04/17		
4						
1. PRO	ODUCT AND COMPANY ID	JENI	IFICATION			
Ρ	roduct name	:	Oxytetracycline / Diclofenac Formulation			
N	lanufacturer or supplier's	deta	ils			
С	ompany	:	MSD			
A	ddress	:	126 E. Lincoln A Rahway, New Je	venue ersey U.S.A. 07065		
Т	elephone	:	908-740-4000			
E	Emergency telephone number		1-908-423-6000			
E	E-mail address		EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use						
	Recommended use		Veterinary produ	ict		
К	estrictions on use	:	Not applicable			
2. HA	ZARDS IDENTIFICATION					
0						
S	HS Classification erious eye damage/eye irri- ation	:	Category 2B			
S	Skin sensitisation		Category 1			
R	Reproductive toxicity		Category 1A			
	pecific target organ toxicity epeated exposure	- :	Category 2 (Gas Liver, Prostate)	trointestinal tract, Blood, lymphatic system,		

: Danger

: Category 1

Signal word

hazard

hazard

Short-term (acute) aquatic : Category 1

Long-term (chronic) aquatic

GHS label elements Hazard pictograms

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Haza	rd statements	H320 Causes H360FD May cau H373 May cau Blood, lympha repeated expo	damage fertility. May damage the unborn child. se damage to organs (Gastrointestinal tract, tic system, Liver, Prostate) through prolonged or
Preca	autionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P272 Contami the workplace. P273 Avoid rel	reathe mist or vapours. in thoroughly after handling. nated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protec-
		P305 + P351 + for several min easy to do. Co P308 + P313 I attention. P333 + P313 I vice/ attention. P337 + P313 I tention.	F exposed or concerned: Get medical advice/ f skin irritation or rash occurs: Get medical ad- f eye irritation persists: Get medical advice/ at- Fake off contaminated clothing and wash it befor
		Storage: P405 Store loc Disposal:	
	r hazards which do n known.	disposal plant. ot result in classifica	
			3
Subst	ance / Mixture	: Mixture	

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-Pyrrolidone	616-45-5	>= 30 -< 60



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oxytetracycline	79-57-2	>= 10 -< 25
Magnesium oxide	1309-48-4	< 10
Sodium [2-[(2,6-	15307-79-6	>= 1 -< 2.5
dichlorophenyl)amino]phenyl]acetate		
Sodium hydroxymethanesulphinate	6035-47-8	< 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. Get medical attention.
	In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
	In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn.
	If swallowed	:	Get medical attention. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
	Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. Causes 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. F	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



So. So. Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 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 or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Methods and materials for containment and cleaning up to the purper dispersive equipment in to keep material from spreading. If dyked material can be purped, store recovered material in appropriate contain- ment to keep material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. 7. HANDLING AND STORAGE : Technical measures : Metioe on safe handling : Do not get in eyes. Wash skin thoroughly after handling. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as	Version 5.1		Revision Date: 2023/09/30		0S Number: 56030-00015	Date of last issue: 2023/04/04 Date of first issue: 2019/04/17	
Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. 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 or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Methods and materials for containment and cleaning up : Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate containe Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those material and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. 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 get on skin or clothing. Do not get in eyes. Wash s		ods Special	protective equipment	:	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. In the event of fire, wear self-contained breathing apparatus.		
tive equipment and emergency procedures 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 or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Methods and materials for containment and cleaning up Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate contained. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SOS provide information regarding certain local or national requirements. Technical measures See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation Advice on safe handling Do not get on skin or clothing. Do not swallow. Do not swallow.	6. A0	CCIDEN	ITAL RELEASE MEA	SUF	RES		
Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Methods and materials for containment and cleaning up Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate containe Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. Technical measures : Local/Total ventilation : Advice on safe handling : Do not get on skin or clothing. Do not get on skin or clothing. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-		tive equ	upment and emer-	:	Follow safe hand	ing advice (see section 7) and personal pro-	
containment and cleaning up For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate containe Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. 7. HANDLING AND STORAGE E 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 get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-		Environ	mental precautions	:	Prevent further leakage or spillage if safe to do so.Prevent spreading over a wide area (e.g. by containment or obarriers).Retain and dispose of contaminated wash water.Local authorities should be advised if significant spillages		
 Technical measures See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Local/Total ventilation If sufficient ventilation is unavailable, use with local exhaust ventilation. Do not get on skin or clothing. Do not breathe mist or vapours. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- 				:	 For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate contain Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regardire 		
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 Local/Total ventilation If sufficient ventilation is unavailable, use with local exhaust ventilation. Advice on safe handling Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- 		Technic	cal measures	:			
Advice on safe handling : Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-		Local/T	otal ventilation	:	If sufficient ventila		
Keep container tightly closed.	_	Advice	on safe handling	:	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and saf practice, based on the results of the workplace exposure a sessment Keep container tightly closed. 		



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	ions for safe storage als to avoid	 Take care to preenvironment. Keep in properly Store locked up. Keep tightly clos Store in accorda 	nce with the particular national regulations. the following product types:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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	NAB (Inhala- ble particu- late matter)	10 mg/m3	ID OEL
	Further information: Not classified as carcinogenic to humans. enough data to classify these materials as carcinogenic to hu- mans or animals			
		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 information: Skin			

Engineering measures : Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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 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



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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 Hygiene measures		eye flushing syst ing place. When using do r Contaminated w workplace. Wash contamina The effective op engineering cont appropriate dego	nemical is likely during typical use, provide tems and safety showers close to the work- not eat, drink or smoke. ork clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the			

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



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Relative vapour density		:	No data available	e				
Relative density		:	1.15 - 1.19 (25 °C)					
Der	sity	:	No data available	e				
Solubility(ies) Water solubility		:	soluble					
Partition coefficient: n- octanol/water Auto-ignition temperature		: Not applicable						
		:	: No data available					
Decomposition temperature		:	No data available					
	Viscosity Viscosity, dynamic		50.3 - 50.7 mPa.	s (25 °C)				
١	Viscosity, kinematic		No data available					
Exp	Explosive properties		Not explosive					
	Oxidizing properties Molecular weight		The substance or mixture is not classified as oxidizing. No data available					
Par	ticle size	:	Not applicable					

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		Oxidizing agents
Hazardous decomposition products	:	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:



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Ac	ute oral toxicity	:	Acute toxicity es Method: Calcula	timate: > 2,000 mg/kg tion method
<u>Co</u>	mponents:			
2-F	Pyrrolidone:			
Ac	Acute oral toxicity			000 mg/kg Fest Guideline 401 e substance or mixture has no acute oral tox-
Ac	ute dermal toxicity	:		2,000 mg/kg Fest Guideline 402 e substance or mixture has no acute dermal
oxy	ytetracycline:			
Ac	ute oral toxicity	:	LD50 (Rat): 4,80	0 mg/kg
			LD50 (Mouse): 2 Remarks: Evider	,240 mg/kg nce of phototoxicity was observed
Ac	ute inhalation toxicity	:	Remarks: No da	ta available
Ac	ute dermal toxicity	:	Remarks: No da	ta available
	ute toxicity (other routes of ministration)	:	LD50 (Rat): 4,84 Application Rout	
			LD50 (Mouse): 3 Application Rout	,500 mg/kg e: Subcutaneous
Ма	gnesium oxide:			
	ute oral toxicity	:	Assessment: The icity	000 mg/kg Fest Guideline 423 e substance or mixture has no acute oral tox- on data from similar materials
Ac	ute inhalation toxicity	:		h -
So	dium [2-[(2,6-dichlorophe	nyl)amino]phenyl]a	cetate:
	ute oral toxicity	:	LD50 (Rat): 55 -	
			LD50 (Mouse): 1	70 - 389 mg/kg



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Acute	toxicity (other routes of		LD50 (Rat): 97 - 1	161 ma/ka
	histration)	•	Application Route	
			LD50 (Mouse): 92 Application Route	
Sodiı	um hydroxymethanesu	lphi	nate:	
Acute	oral toxicity	:	LD50 (Rat): > 5,0 Method: OECD T Remarks: Based	
Acute	e dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD T Remarks: Based	
-	corrosion/irritation	hla	information	
	oonents:	DIE		
	rolidone:			
Speci			Rabbit	
Metho		÷	OECD Test Guide	eline 404
Resul	lt	:	No skin irritation	
oxyte	etracycline:			
Rema	arks	:	No data available	
Sodiu	um [2-[(2,6-dichlorophe	nyl)amino]phenyl]ac	etate:
Resul	lt	:	irritating	
Sodiu	um hydroxymethanesu	lphi	nate:	
Speci	es	:	Rat	
Resu		:	No skin irritation	
Rema	arks	:	Based on data fro	om similar materials
Sorio	us eye damage/eye irri	tati	on	
Seno	an ave imitation			
Cause	es eye irritation.			
Cause <u>Com</u> p	oonents:			
Cause <u>Comp</u> 2-Pyr	oonents: rolidone:			
Cause <u>Com</u> p	oonents: rolidone: es	:	Rabbit Irritation to eyes,	reversing within 7 days
Cause <u>Comp</u> 2-Pyr Speci Resul	oonents: rolidone: es	:		reversing within 7 days



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

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

Result

: Mild eye irritation

Sodium hydroxymethanesulphinate:

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

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

2-Pyrrolidone:

Test Type :	Local lymph node assay (LLNA)
Exposure routes :	Skin contact
Species :	Mouse
Method :	OECD Test Guideline 429
Result :	negative
Remarks :	Based on data from similar materials

oxytetracycline:

Test Type	:	Human repeat insult patch test (HRIPT)
Result	:	Sensitiser

Magnesium oxide:

Test Type :	Maximisation Test
Exposure routes :	Skin contact
Species :	Guinea pig
Method :	OECD Test Guideline 406
Result :	negative
Remarks :	Based on data from similar materials

Sodium hydroxymethanesulphinate:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact



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	Specie Methoo Result Remar	b	:	Guinea pig OECD Test Guid negative Based on data fro	eline 406 om similar materials
	Germ cell mutagenicity Not classified based on availab			information.	
		onents:			
	-	olidone: oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				Method: OECD T Result: negative	o mammalian cell gene mutation test fest Guideline 476 on data from similar materials
					nosome aberration test in vitro est Guideline 473
	Genoto	oxicity in vivo	:	cytogenetic assay Species: Mouse Application Route	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection fest Guideline 474
	oxvtet	racycline:			
	•	oxicity in vitro	:	Test Type: Microl Result: negative	pial mutagenesis assay (Ames test)
				Test Type: Mouse Metabolic activati Result: positive	e Lymphoma on: Metabolic activation
					chromatid exchange assay nese hamster ovary cells
				Test Type: Chron Result: negative	nosomal aberration
	Genoto	oxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone n Application Route Result: equivocal	narrow e: Oral



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		Species: M	Route: Intraperitoneal injection
	cell mutagenicity - ssment	: Weight of e cell mutage	vidence does not support classification as a gern
Magn	esium oxide:		
-	toxicity in vitro	Method: OE Result: neg	Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 ative Based on data from similar materials
		Method: OE Result: neg	Chromosome aberration test in vitro ECD Test Guideline 473 ative Based on data from similar materials
		Method: OE Result: neg	In vitro mammalian cell gene mutation test ECD Test Guideline 476 ative Based on data from similar materials
Sodiı	ım [2-[(2,6-dichlorop	henyl)amino]phe	nyl]acetate:
	toxicity in vitro	• • •	Bacterial reverse mutation assay (AMES)
		Test Type: Result: neg	Mouse Lymphoma ative
Geno	toxicity in vivo	Result: neg	ative Chromosomal aberration HO
	toxicity in vivo Im hydroxymethane	Result: neg : Test Type: Species: Cl Result: neg	ative Chromosomal aberration HO
Sodiu	·	Result: neg : Test Type: Species: Cl Result: neg sulphinate: : Test Type: Method: OE Result: neg	ative Chromosomal aberration HO lative Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 lative
Sodiı Geno	Im hydroxymethane	Result: neg : Test Type: Species: Cl Result: neg sulphinate: : Test Type: Method: OE Result: neg Remarks: E : Test Type: cytogenetic Species: M Application Method: OE	ative Chromosomal aberration HO lative Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 lative Based on data from similar materials Mammalian erythrocyte micronucleus test (in viv assay) ouse Route: Intraperitoneal injection ECD Test Guideline 474
Sodiı Geno	Im hydroxymethane toxicity in vitro	Result: neg : Test Type: Species: Cl Result: neg sulphinate: : Test Type: Method: OE Result: neg Remarks: E : Test Type: cytogenetic Species: M Application Method: OE Result: pos	ative Chromosomal aberration HO lative Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 lative Based on data from similar materials Mammalian erythrocyte micronucleus test (in viv assay) ouse Route: Intraperitoneal injection ECD Test Guideline 474



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Asse	ssment	genicity tests.	
7330.	Sinen	geniety tests.	
	i nogenicity lassified based on ava	ilable information.	
Com	ponents:		
2-Pyr	rolidone:		
Spec	ies	: Mouse	
	cation Route	: Ingestion	
Expo	sure time	: 18 month(s)	
Resu		: negative	
Rema	arks	: Based on data	rom similar materials
oxyte	etracycline:		
Spec	ies	: Mouse	
	cation Route	: Oral	
	sure time	: 104 weeks	
Resu		: negative	
Spec		: Rat	
	cation Route	: Oral	
	sure time	: 103 weeks	
Resu		: equivocal	
	et Organs	: Adrenal gland,	
Rema	arks	: The mechanism	or mode of action may not be relevant in hu-
		mans.	
Carci ment	nogenicity - Assess-	: Weight of evide cinogen	nce does not support classification as a car-
mont		onrogon	
-	nesium oxide:		
Spec		: Mouse	
	cation Route	: Ingestion	
	sure time	: 96 weeks	
Resu		: negative	rom aimilar matariala
Rema	arks	: Based on data	rom similar materials
Sodi	um [2-[(2,6-dichlorop	henyl)amino]phenyl]a	acetate:
Spec	ies	: Rat	
Appli	cation Route	: Oral	
	sure time	: 2 Years	
Resu	lt	: negative	
Spec		: Mouse	
	cation Route	: Oral	
	sure time	: 2 Years	
Resu	I I	: negative	



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May c	oductive toxicity Jamage fertility. May da ponents:	amag	e the unborn ch	ld.
2-Pyr	rolidone:			
-	s on fertility	:	Species: Rat Application Ro Result: positive	
Effect ment	s on foetal develop-	:	Test Type: Em Species: Rat Application Ro Result: positive	•
Repro sessn	oductive toxicity - As- nent	:	ity, based on a	e of adverse effects on sexual function and fe nimal experiments., Clear evidence of adverse elopment, based on animal experiments.
oxyte	tracycline:			
-	s on fertility	:	Species: Rat Application Ro Fertility: NOAE Result: No effe	p-generation reproduction toxicity study ute: Oral L: 18 mg/kg body weight cts on fertility, No effect on reproduction cap ant adverse effects were reported
Effect ment	s on foetal develop-	:	Species: Rat Application Ro Embryo-foetal	bryo-foetal development ute: Oral toxicity: LOAEL: 48 mg/kg body weight plantation loss., Skeletal malformations
			Species: Rat Application Ro General Toxici Embryo-foetal Result: No tera	bryo-foetal development ute: Oral ty Maternal: LOAEL: 1,200 mg/kg body weigl toxicity: NOAEL: 1,500 mg/kg body weight togenic effects ernal toxicity observed.
			Species: Mous Application Ro General Toxici Embryo-foetal Result: No tera	
				ernal toxicity observed. bryo-foetal development



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-	oductive toxicity - As-	Embryo-foet Result: Posti Test Type: E Species: Dog Application F Embryo-foet Result: Skele : Positive evid	Route: Intramuscular al toxicity: LOAEL: 41.5 mg/kg body weight mplantation loss., No foetal abnormalities imbryo-foetal development g Route: Intramuscular al toxicity: LOAEL: 20.75 mg/kg body weight etal and visceral variations, Postimplantation los
sessn	nent	human epide	emiological studies.
-	esium oxide: is on fertility	reproduction Species: Rat Application F Method: OE0 Result: nega	Route: Ingestion CD Test Guideline 422
Effect ment	s on foetal develop-	reproduction Species: Rat Application F Method: OE0 Result: nega	Route: Ingestion CD Test Guideline 422
Sodiu	ım [2-[(2,6-dichloropl	nenyl)amino]phen	yl]acetate:
	s on fertility	: Test Type: F Species: Rat Application F Fertility: NO	ertility , male and female
Effect ment	s on foetal develop-	Result: Emb Test Type: D Species: Ral	t Route: Oral tal Toxicity: LOAEL: 1 mg/kg body weight ryo-foetal toxicity, No teratogenic effects Development
		Application	
		Developmen	tal Toxicity: LOAEL: 5 mg/kg body weight ryo-foetal toxicity, No teratogenic effects



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sessr	nent		
Sodiu	um hydroxymethanes	ulphinate:	
Effect	ts on fertility	reproduction/dev Species: Rat Application Rout Method: OECD Result: negative	Test Guideline 422
Effect ment	ts on foetal develop-	Species: Rat Application Rout	ryo-foetal development te: Ingestion Test Guideline 414

Reproductive toxicity - As- : Some evidence of adverse effects on development, based on animal experiments.

Remarks: Based on data from similar materials

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

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

Components:

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

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

oxytetracycline:



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Targe	et Organs	: Bone					
Rema			dverse effects were reported				
Speci		: Mouse					
LOAE		: 7,990 mg/kg					
	cation Route sure time	: Oral : 13 Weeks					
	et Organs	: Bone					
Rema			dverse effects were reported				
Speci		: Dog					
NOA		: 125 mg/kg					
LOAE		: 250 mg/kg					
	cation Route	: Oral : 12 Months					
	sure time et Organs	: Testis					
Rema			sity observed in testing				
Speci	ies	: Rat					
NOA		: 40 mg/kg					
LOAE		: 100 mg/kg					
	cation Route	: Intraperitoneal					
	sure time et Organs	: 14 Days : Kidney					
Targe	organs	. Ridney					
-	nesium oxide:						
Speci		: Rat					
NOA		: >= 1,000 mg/kg]				
	cation Route	: Ingestion					
Metho	sure time	: 28 Days : OECD Test Gu	ideline 407				
Rema			from similar materials				
Sadi	Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:						
Speci		: Rat	acelale.				
LOAE		: 0.25 mg/kg					
	cation Route	: Oral					
	sure time	: 98 w					
Targe	et Organs	: Gastrointestina	I tract, Blood, lymphatic system, Liver, Prostate				
Speci		: Dog					
LOAE		: 1 mg/kg					
	cation Route	: Oral : 12 w					
	sure time et Organs	: Blood					
Speci	ies	: Baboon					
NOA		: 0.5 mg/kg					
LOAE	EL	: 5 mg/kg					
	cation Route	: Oral					
	sure time	: 52 w					



sion	Revision Date: 2023/09/30		OS Number: 56030-00015	Date of last issue: 2023/04/04 Date of first issue: 2019/04/17			
Targe Symp	t Organs toms	:	Gastrointestinal t constipation, Dia				
Oymp		·	consupation, Dia	modu			
Sodium hydroxymethanesulphinate:							
Speci		:	Rat				
NOAE		:	600 mg/kg				
	cation Route	:	Ingestion				
Expos	sure time	:	90 Days				
Metho	bd	:	OECD Test Guid				
Rema	arks	:	Based on data fr	om similar materials			
Aspir	ation toxicity						
•	assified based on availa	ble	information.				
Expe	rience with human exp	osi	ure				
<u>Comp</u>	oonents:						
oxyte	tracycline:						
Inges	tion	:	Symptoms: Gastrointestinal disturbance, tooth discoloration Remarks: May cause birth defects.				
Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:							
Sodu							
Inges		:	Symptoms: Abdo	ominal pain, Diarrhoea, constipation, heart-			
Inges		:	Symptoms: Abdo burn, Ulceration,	ominal pain, Diarrhoea, constipation, heart-			
Inges	tion	:	Symptoms: Abdo burn, Ulceration,	ominal pain, Diarrhoea, constipation, heart-			
Inges ECOLO Ecoto	tion OGICAL INFORMATION	:	Symptoms: Abdo burn, Ulceration,	ominal pain, Diarrhoea, constipation, heart-			
Inges ECOLO Ecoto <u>Comp</u>	tion OGICAL INFORMATION oxicity ponents:	:	Symptoms: Abdo burn, Ulceration,	ominal pain, Diarrhoea, constipation, heart-			
ECOLO Ecoto <u>Comp</u> 2-Pyr	tion OGICAL INFORMATION oxicity <u>conents:</u> rolidone:	: N	Symptoms: Abdo burn, Ulceration, Rash	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties			
ECOLO Ecoto <u>Comp</u> 2-Pyr	tion OGICAL INFORMATION oxicity ponents:	: N	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties			
ECOLO Ecoto <u>Comp</u> 2-Pyr	tion OGICAL INFORMATION oxicity <u>conents:</u> rolidone:	: N	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l			
ECOLO Ecoto <u>Comp</u> 2-Pyr	tion OGICAL INFORMATION oxicity <u>conents:</u> rolidone:	: N	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties			
Inges ECOLO Ecoto <u>Comr</u> 2-Pyr Toxici	tion OGICAL INFORMATION Exicity Exicity Formatione Tolidone: Sity to fish	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD 1	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 16 h Fest Guideline 203			
Inges ECOLO Ecoto Comr 2-Pyr Toxici	tion OGICAL INFORMATION Exicity Exicity Exicity Folidone: The fish The fish The fish of the fish	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD T EC50 (Daphnia r	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 16 h Fest Guideline 203 magna (Water flea)): > 500 mg/l			
Inges ECOLO Ecoto Comr 2-Pyr Toxici	tion OGICAL INFORMATION Exicity Exicity Formatione Tolidone: Sity to fish	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD 1	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 16 h Fest Guideline 203 magna (Water flea)): > 500 mg/l			
ECOLO Ecoto Comp 2-Pyr Toxici aquat	tion OGICAL INFORMATION oxicity <u>oonents:</u> rolidone: ity to fish ity to daphnia and other ic invertebrates	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD T EC50 (Daphnia r Exposure time: 4	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 06 h Fest Guideline 203 magna (Water flea)): > 500 mg/l 8 h			
Inges ECOLO Ecoto Comr 2-Pyr Toxici aquat Toxici	tion OGICAL INFORMATION oxicity ponents: rolidone: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD T EC50 (Daphnia r Exposure time: 4 ErC50 (Desmode	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 06 h Fest Guideline 203 magna (Water flea)): > 500 mg/l 8 h esmus subspicatus (green algae)): > 500 m			
ECOLO Ecoto Comp 2-Pyr Toxici aquat	tion OGICAL INFORMATION oxicity ponents: rolidone: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD T EC50 (Daphnia r Exposure time: 4	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 06 h Fest Guideline 203 magna (Water flea)): > 500 mg/l 8 h esmus subspicatus (green algae)): > 500 m			
Inges ECOLO Ecoto Comr 2-Pyr Toxici aquat Toxici	tion OGICAL INFORMATION oxicity ponents: rolidone: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD 7 EC50 (Daphnia r Exposure time: 4 ErC50 (Desmode Exposure time: 7 EC10 (Desmode	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 16 h Fest Guideline 203 magna (Water flea)): > 500 mg/l 18 h esmus subspicatus (green algae)): > 500 m 12 h			
Inges ECOLO Ecoto Comr 2-Pyr Toxici aquat Toxici	tion OGICAL INFORMATION oxicity ponents: rolidone: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD 7 EC50 (Daphnia r Exposure time: 4 ErC50 (Desmode Exposure time: 7	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 16 h Fest Guideline 203 magna (Water flea)): > 500 mg/l 18 h esmus subspicatus (green algae)): > 500 m 12 h			
Inges ECOLO Ecoto Comr 2-Pyr Toxici aquat Toxici plants	tion OGICAL INFORMATION oxicity ponents: rolidone: ity to daphnia and other ic invertebrates ity to algae/aquatic	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD 7 EC50 (Daphnia r Exposure time: 4 ErC50 (Desmode Exposure time: 7 EC10 (Desmode Exposure time: 7	o (zebra fish)): > 4,600 - 10,000 mg/l 0 (zebra fish)): > 4,600 - 10,000 mg/l 6 h Fest Guideline 203 magna (Water flea)): > 500 mg/l 8 h esmus subspicatus (green algae)): > 500 m 2 h			
Inges ECOLO Ecoto Comr 2-Pyr Toxici aquat Toxici plants	tion OGICAL INFORMATION oxicity ponents: rolidone: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD 1 EC50 (Daphnia r Exposure time: 4 ErC50 (Desmode Exposure time: 7 EC10 (Desmode Exposure time: 7 EC50: > 1,000 m	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 6 h Fest Guideline 203 magna (Water flea)): > 500 mg/l 8 h esmus subspicatus (green algae)): > 500 m 2 h smus subspicatus (green algae)): > 500 m 2 h			
Inges ECOLO Ecoto Comr 2-Pyr Toxici aquat Toxici plants	tion OGICAL INFORMATION oxicity ponents: rolidone: ity to daphnia and other ic invertebrates ity to algae/aquatic	: N :	Symptoms: Abdo burn, Ulceration, Rash LC50 (Danio reri Exposure time: 9 Method: OECD 7 EC50 (Daphnia r Exposure time: 4 ErC50 (Desmode Exposure time: 7 EC10 (Desmode Exposure time: 7 EC50: > 1,000 m Exposure time: 3	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties o (zebra fish)): > 4,600 - 10,000 mg/l 06 h Fest Guideline 203 magna (Water flea)): > 500 mg/l 8 h esmus subspicatus (green algae)): > 500 m 22 h smus subspicatus (green algae)): > 500 m 22 h			



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oxy	vtetracycline:			
То	Toxicity to fish		LC50 (Oryzias lati Exposure time: 96 Method: OECD Te	
	kicity to daphnia and other latic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
			EC50 (Daphnia m Exposure time: 48 Method: OECD To	
To» pla	kicity to algae/aquatic nts	:	EC50 (Anabaena) Exposure time: 72	
			NOEC (Anabaena Exposure time: 72	
	Factor (Acute aquatic tox-	:	10	
	/) Factor (Chronic aquatic icity)	:	10	
	kicity 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
Ма	gnesium oxide:			
То	kicity to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l 5 h on data from similar materials
	kicity to daphnia and other latic invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h on data from similar materials
To» pla	kicity to algae/aquatic nts	:	mg/l Exposure time: 72 Test substance: V Method: OECD To	Vater Accommodated Fraction
То	cicity to microorganisms	:	EC50: > 100 mg/l	



ersion .1	Revision Date: 2023/09/30		S Number: 56030-00015	Date of last issue: 2023/04/04 Date of first issue: 2019/04/17
				3 h 9 Test Guideline 209 ed on data from similar materials
Sodiu	ım [2-[(2,6-dichlorophe	nyl)amino]phenyl]	acetate:
Toxici	ity to fish	:	Exposure time:	ales promelas (fathead minnow)): 166.6 mg/ 96 h 9 Test Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time:	a magna (Water flea)): 80.1 mg/l 48 h 9 Test Guideline 202
Toxici plants	ity to algae/aquatic	:	mg/I Exposure time:	kirchneriella subcapitata (green algae)): 71. 72 h 9 Test Guideline 201
			mg/I Exposure time:	okirchneriella subcapitata (green algae)): 49 72 h 9 Test Guideline 201
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time:	nales promelas (fathead minnow)): 0.32 mg 32 d 9 Test Guideline 210
	ity to daphnia and other ic invertebrates (Chron- city)	:	Exposure time:	a magna (Water flea)): 10 mg/l 21 d 9 Test Guideline 211
Sodiu	ım hydroxymethanesu	lph	inate:	
	ity to fish	:	LC50 (Leucisco Exposure time:	us idus (Golden orfe)): > 10,000 mg/l 96 h ed on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: Method: OECD	a magna (Water flea)): > 100 mg/l 48 h 9 Test Guideline 202 ed on data from similar materials
Toxici plants	ity to algae/aquatic	:	Exposure time: Method: OECD	desmus subspicatus (green algae)): 370 mg 72 h 9 Test Guideline 201 ed on data from similar materials
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: Method: OECD	rerio (zebra fish)): 13.5 mg/l 35 d 9 Test Guideline 210 ed on data from similar materials



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	tic invertebrates (Chron-	:	Exposure time: Method: OECD	a magna (Water flea)): 5.6 mg/l 21 d Test Guideline 211 d on data from similar materials
Toxic	Toxicity to microorganisms		EC50: > 1,000 mg/l Exposure time: 4 h Remarks: Based on data from similar materials	
Persi	istence and degradabili	ity		
Com	ponents:			
2-Руі	rrolidone:			
Biode	egradability	:	Result: Readily Remarks: Base	biodegradable. d on data from similar materials
Sodi	um hydroxymethanesu	lph	inate:	
Biode	egradability	:	Biodegradation: Exposure time: Method: OECD	77 %
Bioa	ccumulative potential			
Com	ponents:			
2-Pyı	rrolidone:			
	ion coefficient: n- nol/water	:	log Pow: -0.71 Method: OECD	Test Guideline 107
Sodi	um [2-[(2,6-dichlorophe	enyl)amino]phenyl]a	icetate:
	ion coefficient: n- nol/water	:	log Pow: 4.51	
	lity in soil ata available			
••	r adverse effects ata available			
		19		
Disp	osal methods			
Wast	e from residues	:		of waste into sewer. cordance with local regulations.
Conta	aminated packaging	:	Empty contained dling site for rec	rs should be taken to an approved waste han ycling or disposal. specified: Dispose of as unused product.



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14. TRANSPORT INFORMATION

International Regulations

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

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



sion	Revision Date: 2023/09/30		S Number: 56030-00015	Date of last issue: 2023/04 Date of first issue: 2019/04	
				R/4/2013 concerning the R	
	f Industry Regulation of Classification and			009 concerning Globally Ha s.	armonized S
	llation of the Ministe rdous to Health	r of He	ealth No. 472 of	996 on the Safeguarding o	f Substance
Haza	rdous substances tha	t must	be registered	: Not applicable	
Gove stanc	-	No. 74	of 2001 on the	anagement of Hazardous a	Ind Toxic Su
Haza	rdous substances app	oroved	for use	: Not applicable	
Prohi	bited substances			: Not applicable	
Restr	icted substances			: Not applicable	
Regu Mate	-	y of Tr	ade No. 7 of 202	2 on Distribution and Contr	ol of Hazaro
Type of hazardous materials subject to distribution and : Not applicable control, Annex I				and : Not applicable	
	of hazardous materia ol, Annex II	ls subj	ect to distributior	and : Not applicable	
The c	components of this r	oroduc	t are reported i	the following inventories:	
AICS	• •	:	not determined	U	
DSL		:	not determined		
IECS	С	:	not determined		
OTHE	R INFORMATION				
	R INFORMATION	:	2023/09/30		
Revis		:	2023/09/30		
Revis Furth Sourc	sion Date her information ces of key data used t ille the Safety Data	: o :	Internal technic	l data, data from raw materia arch results and European C ıropa.eu/	
Revis Furth Sourc comp Shee	sion Date her information ces of key data used t ille the Safety Data	: o : :	Internal technic eChem Portal s	arch results and European C	
Revis Furth Sourc comp Shee Date	sion Date ner information ces of key data used t ile the Safety Data t	:	Internal technic eChem Portal s cy, http://echa.e	arch results and European C	
Revis Furth Sourc comp Shee Date	sion Date her information ces of key data used t ile the Safety Data t format ext of other abbrevia IH	:	Internal technic eChem Portal s cy, http://echa.e yyyy/mm/dd USA. ACGIH T	arch results and European C	



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AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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