

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	1313899-00020	Date of first issue: 20.02.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Trade name	:	Oxytetracycline / Diclofenac Liquid Formulation
1.2 Relevant identified uses of	the s	substance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable
1.3 Details of the supplier of the	e saf	ety data sheet
Company	:	MSD
		Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person	:	EHSDATASTEWARD@msd.com
responsible for the SDS		

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 Skin sensitisation, Category 1 Reproductive toxicity, Category 1A	H319: Causes serious eye irritation. H317: May cause an allergic skin reaction. H360FD: May damage fertility. May damage the unborn child.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Oxytetracycline / Diclofenac Liquid Formulation

Versio 4.0	on Revision Date: 28.09.2024		umber:)9-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
ŀ	lazard pictograms	:		!
S	Signal word	: Dan	ger	• •
F	lazard statements	: H31 H31 H36 child H41	9 Causes s 0FD N I.	e an allergic skin reaction. erious eye irritation. lay damage fertility. May damage the unborn to aquatic life with long lasting effects.
F	Precautionary statements	: Pre	vention:	
		P20 P27 P28 tion	3 Avoid rele	ecial instructions before use. ease to the environment. tective gloves/ protective clothing/ eye protec- on.
		Res	ponse:	
		atte P33	ntion. 3 + P313 If ce/ attention.	exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical village.

Hazardous components which must be listed on the label: oxytetracycline Benzyl alcohol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name CAS-No. Classification Concentration
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Oxytetracycline / Diclofenac Liquid Formulation

rsion			of last issue: 06.04.2024 of first issue: 20.02.2017	
		EC-No. Index-No. Registration numbe	er	(% w/w)
2-Pyrr	rolidone	616-45-5 210-483-1	Eye Irrit. 2; H319 Repr. 1B; H360FD specific concentra- tion limit Repr. 1B; H360FD > 3 %	>= 30 - < 5
oxytet	tracycline	79-57-2 201-212-8	Skin Sens. 1A; H317 Repr. 1A; H360D Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 20 - < 2
Benzy	/l alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity esti- mate Acute oral toxicity: 1.200 mg/kg	>= 1 - < 1
dichlo	m [2-[(2,6- rophenyl)amino]phenyl]acet		Acute Tox. 3; H301 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT RE 1; H372 (Gastrointestinal tract, Blood, lym- phatic system, Liv- er, Prostate) Aquatic Chronic 2; H411	>= 0,25 - <
Sodiu	m hydroxymethanesulphina	te 149-44-0 205-739-4	Muta. 2; H341 Repr. 2; H361d EUH032	>= 0,1 - <

For explanation of abbreviations see section 16.



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	1313899-00020	Date of first issue: 20.02.2017

SECTION 4: First aid measures

4.1 Description of first aid measu	ures
General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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).
If inhaled	: If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	 In case of contact, immediately flush skin with soap and 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.
4.2 Most important symptoms an	nd effects, both acute and delayed
Risks	: May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility. May damage the unborn child.
4.3 Indication of any immediate r	medical attention and special treatment needed
Treatment	: Treat symptomatically and supportively.
SECTION 5: Firefighting meas	sures
5.1 Extinguishing media	
Suitable extinguishing media	: Water spray Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical



Version 4.0	Revision Date: 28.09.2024		DS Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017			
Unsuitable extinguishing media		:	None known.				
5.2 Specia	5.2 Special hazards arising from the substance or mixture						
		:	Exposure to com	oustion products may be a hazard to health.			
Hazardous combustion prod- ucts		:	Carbon oxides Nitrogen oxides (l	NOx)			
5.3 Advice	for firefighters						
	al protective equipment fighters	:		e, wear self-contained breathing apparatus. tective equipment.			
Specific extinguishing meth- ods		:	cumstances and Use water spray f	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do			

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: So	ak up with inert absorbent material.
	me be	r large spills, provide dyking or other appropriate contain- nt to keep material from spreading. If dyked material can pumped, store recovered material in appropriate container. an up remaining materials from spill with suitable absor- nt.
	po: em	cal or national regulations may apply to releases and dis- sal of this material, as well as those materials and items ployed in the cleanup of releases. You will need to deter- ne which regulations are applicable.



Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017	

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.	
Advice on safe handling	:	Do not get on skin or clothing. Avoid breathing mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.	
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.	
7.2 Conditions for safe storage,	incl	luding any incompatibilities	
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.	
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases	
7.3 Specific end use(s)			

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Specific use(s)

: No data available



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	1313899-00020	Date of first issue: 20.02.2017

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
oxytetracycline	79-57-2	TWA	500 µg/m3 (OEB 2)	Internal		
	Further inform	nation: DSEN				
		Wipe limit	100 µg/100 cm²	Internal		
Magnesium oxide	1309-48-4	TWA (Dust)	10 mg/m3	FOR-2011- 12-06-1358		
Sodium [2-[(2,6- dichloro- phe- nyl)amino]phenyl]a cetate	15307-79-6	TWA	100 μg/m3 (OEB 2)	Internal		
	Further inform	Further information: Skin				

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
2-Pyrrolidone	Workers	Inhalation	Long-term systemic effects	57,8 mg/m3
	Workers	Skin contact	Long-term systemic effects	10 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	277 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	17,1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	167 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	5,2 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	33,3 mg/kg bw/day
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m3
	Consumers	Inhalation	Acute systemic ef-	27 mg/m3



Oxytetracycline / Diclofenac Liquid Formulation

Version 4.0	Revision Date: 28.09.2024	SDS Nur 1313899		of last issue: 06.04.2024 of first issue: 20.02.2017	
П			I	fects	1
		Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day
	ım hy- methanesulphi-	Workers	Inhalation	Long-term systemic effects	21 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	140 mg/m3
		Workers	Skin contact	Long-term systemic effects	6 mg/kg bw/day
		Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
		Workers	Skin contact	Acute local effects	0,225 mg/cm2

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
2-Pyrrolidone	Fresh water	0,5 mg/l
	Freshwater - intermittent	0,5 mg/l
	Marine water	0,05 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0,4205 mg/kg dry
		weight (d.w.)
	Soil	0,0612 mg/kg dry
		weight (d.w.)
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Intermittent use/release	2,3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5,27 mg/kg
	Marine sediment	0,527 mg/kg
	Soil	0,456 mg/kg
Sodium hydroxymethanesulphi- nate	Fresh water	0,056 mg/l
	Marine water	0,006 mg/l
	Freshwater - intermittent	0,056 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	0,046 mg/kg dry
		weight (d.w.)
	Marine sediment	0,005 mg/kg dry
		weight (d.w.)
	Soil	0,011 mg/kg dry
		weight (d.w.)



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	1313899-00020	Date of first issue: 20.02.2017

8.2 Exposure controls

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 equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	light brown
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	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	:	No data available

Commission Regulation (EU) 2020/878



Oxytetracycline / Diclofenac Liquid Formulation

Vers 4.0	sion	Revision Date: 28.09.2024		S Number: 3899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
	flamma	bility limit			
	Flash p	oint	:	No data available	9
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	8,3 - 9,0 (as aqueous solu	ition)
	Viscosi Visc	ty cosity, kinematic	:	47,62 mm2/s	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n- /water	:	No data available	
	Vapour	pressure	:	No data available	9
	Relative	e density	:	No data available	9
	Density	,	:	1,05 - 1,18 g/cm ³	1
	Relative	e vapour density	:	No data available	2
		characteristics icle size	:	Not applicable	
9.2	Other in	formation			
	Explosi	ves	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ation rate	:	No data available)
	Molecu	lar weight	:	No data available	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.



Version 4.0	Revision Date: 28.09.2024		OS Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
10.3 Pos	sibility of hazardous rea	acti	ons	
	ardous reactions	:		trong oxidizing agents.
10.4 Con	ditions to avoid			
Conc	litions to avoid	:	None known.	
10.5 Inco	mpatible materials			
Mate	rials to avoid	:	Oxidizing agents	8
	ardous decomposition			
SECTIO	N 11: Toxicological ir	nfor	mation	
11.1 Infor	mation on hazard class	ses	as defined in Reg	gulation (EC) No 1272/2008
Infori expo	mation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
Acut	e toxicity			
Not c	classified based on availa	able	information.	
Prod				
Acute	e oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 2.000 mg/kg ion method
<u>Com</u>	ponents:			
2-Py	rrolidone:			
Acute	e oral toxicity	:		000 mg/kg Test Guideline 401 e substance or mixture has no acute oral tox-
Acute	e dermal toxicity	:		2.000 mg/kg Test Guideline 402 Substance or mixture has no acute dermal
oxyte	etracycline:			
Acute	e oral toxicity	:	LD50 (Rat): 4.80	0 mg/kg
			LD50 (Mouse): 2 Remarks: Evider	.240 mg/kg ice of phototoxicity was observed
Acute	e inhalation toxicity	:	Remarks: No dat	a available



Version 4.0	Revision Date: 28.09.2024	-	9S Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017	
Acute	e dermal toxicity	:	Remarks: No data	available	
	e toxicity (other routes of nistration)	:	LD50 (Rat): 4.840 Application Route		
			LD50 (Mouse): 3.500 mg/kg Application Route: Subcutaneous		
Benz	yl alcohol:				
Acute	e oral toxicity	:	LD50 (Rat): 1.200	mg/kg	
Acute	e 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		
Sodi	um [2-[(2,6-dichlorophe	nyľ)amino]phenyl]aco	etate:	
	e 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		
II Sodii	um hydroxymethanesul	phi	nate:		
	e oral toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te		
Acute	e dermal toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te Assessment: The toxicity		
	corrosion/irritation lassified based on availa	ble	information.		
Com	ponents:				
2-Руі	rrolidone:				
Spec Meth		:	Rabbit OECD Test Guide	line 404	



Version 4.0	Revision Date: 28.09.2024		Number: 899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017	
Resu	lt	: N	lo skin irritation		
-	etracycline:				
Rema	arks	: N	lo data available		
Benz	yl alcohol:				
Spec			abbit		
Metho Resu			: OECD Test Guideline 404: No skin irritation		
	um [2-[(2,6-dichlorop	ohenyl)a	mino]phenyl]ac	etate:	
Resu	lt	: ir	ritating		
Sodiu	um hydroxymethane	sulphina	ate:		
Spec			lat		
Resu	lt	: N	lo skin irritation		
			abbit ritation to eyes,	reversing within 7 days	
oxyte	etracycline:				
Rema	arks	: N	lo data available)	
Benz	yl alcohol:				
Spec	ies		abbit		
Meth			ECD Test Guid		
Resu	п	: Ir	mation to eyes,	reversing within 21 days	
	um [2-[(2,6-dichlorop				
Resu	lt	: N	1ild eye irritation		
Sodiu	um hydroxymethane	-			
Spec			abbit		
Metho Resu			ECD Test Guid	eline 405	
ivean	iii.	. 1	io eye imanon		



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	1313899-00020	Date of first issue: 20.02.2017

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
Exposure routes Species Method Result Remarks	OECD Test Guideline 429
Result	negative
Remarks	Based on data from similar materials

oxytetracycline:

Test Type Result

: Human repeat insult patch test (HRIPT) : Sensitiser

Benzyl alcohol:

Test Type Exposure routes Species Result	:	Human repeat insult patch test (HRIPT) Skin contact Humans positive
Assessment	:	Probability or evidence of low to moderate skin sensitisation rate in humans

Sodium hydroxymethanesulphinate:

Test Type Exposure routes Species Method Result	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

2-Pyrrolidone:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vitro		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative



Version 4.0	Revision Date: 28.09.2024		DS Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017	
П			Remarks: Based	on data from similar materials	
				nosome aberration test in vitro est Guideline 473	
Genc	Genotoxicity in vivo		Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative		
oxyte	etracycline:				
Geno	otoxicity 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	
Genc	otoxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: equivocal	narrow e: Oral	
			Test Type: in vivo Species: Mouse Application Route Result: negative	assay e: Intraperitoneal injection	
Germ sessr	n cell mutagenicity- As- ment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ	
Benz	yl alcohol:				
	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)	
Geno	otoxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) e: Intraperitoneal injection	



ersion 0	Revision Date: 28.09.2024		9S Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017	
I			Result: negative	2	
Sodiu	um [2-[(2,6-dichloroph	enyl)amino]phenyl]a	acetate:	
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES)	
			Test Type: Mou Result: negative		
Genotoxicity in vivo :		:	Test Type: Chromosomal aberration Species: CHO Result: negative		
Sodiı	um hydroxymethanesi	ulphi	nate:		
	toxicity in vitro	:	Test Type: Bac	terial reverse mutation assay (AMES) Test Guideline 471 e	
				tro mammalian cell gene mutation test Test Guideline 476	
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse Application Rou		
Germ sessn	cell mutagenicity- As- nent	:	Positive result(s genicity tests.	s) from in vivo mammalian somatic cell muta	
II Carci	inogenicity				
Not c	lassified based on avail	able	information.		
<u>Com</u>	ponents:				
	rolidone:				
Speci	ies cation Route	:	Mouse Ingestion		
	sure time	÷	18 month(s)		
Resu		:	negative		
Rema	arks	:		from similar materials	
	etracycline:				
Speci		:	Mouse		
	cation Route				
	sure time	•	104 weeks		



Version 4.0	Revision Date: 28.09.2024	-	OS Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
Expo Resu	cation Route sure time It et Organs		Rat Oral 103 weeks equivocal Adrenal gland, P The mechanism mans.	ituitary gland or mode of action may not be relevant in hu-
Carci ment	nogenicity - Assess-	:	Weight of eviden cinogen	ce does not support classification as a car-
Benz	yl alcohol:			
Spec Appli	ies cation Route sure time od	:	Mouse Ingestion 103 weeks OECD Test Guid negative	eline 451
Sodiu	um [2-[(2,6-dichloroph	neny)amino]phenyl]ad	cetate:
	cation Route sure time	:	Rat Oral 2 Years negative	
	cation Route sure time	: :	Mouse Oral 2 Years negative	
-	oductive toxicity damage fertility. May da	amag	e the unborn child	
Com	ponents:			
2-Pyr	rolidone:			
Effec	ts on fertility	:	Species: Rat Application Route Result: positive	generation reproduction toxicity study e: Ingestion on data from similar materials
Effec ment	ts on foetal develop-	:	Test Type: Embr Species: Rat Application Route Result: positive	yo-foetal development e: Ingestion
Repro sessr	oductive toxicity - As- nent	:	ity, based on anii	f adverse effects on sexual function and fertil- nal experiments., Clear evidence of adverse pment, based on animal experiments.



Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
П			
oxyte	tracycline:		
Effect	s on fertility	Species: Rat Application R Fertility: NOA Result: No eff	vo-generation reproduction toxicity study oute: Oral EL: 18 mg/kg body weight fects on fertility, No effect on reproduction capac- cant adverse effects were reported
Effect ment	s on foetal develop-	Species: Rat Application R Embryo-foeta	nbryo-foetal development oute: Oral I toxicity: LOAEL: 48 mg/kg body weight nplantation loss., Skeletal malformations
		Species: Rat Application R General Toxic Embryo-foeta Result: No ter	nbryo-foetal development oute: Oral city Maternal: LOAEL: 1.200 mg/kg body weight I toxicity: NOAEL: 1.500 mg/kg body weight ratogenic effects ternal toxicity observed.
		Species: Mou Application R General Toxic Embryo-foeta Result: No ter	
		Species: Rab Application R Embryo-foeta	nbryo-foetal development bit oute: Intramuscular I toxicity: LOAEL: 41,5 mg/kg body weight nplantation loss., No foetal abnormalities
		Species: Dog Application R Embryo-foeta	nbryo-foetal development oute: Intramuscular I toxicity: LOAEL: 20,75 mg/kg body weight tal and visceral variations, Postimplantation loss.
Repro sessn	oductive toxicity - As- nent		ence of adverse effects on development from miological studies.
Benzy	yl alcohol:		
	s on fertility	Species: Rat	ertility/early embryonic development



Oxytetracycline / Diclofenac Liquid Formulation

Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
			sed on data from similar materials
Effec ment	ts on foetal develop-	Species: Mou	oute: Ingestion
Sodi	um [2-[(2,6-dichloroph	enyl)amino]pheny	/I]acetate:
Effec	ts on fertility	Application R Fertility: NOA	, male and female
Effec ment	ts on foetal develop-	Result: Embr Test Type: D Species: Rat Application R Development	coute: Oral cal Toxicity: LOAEL: 1 mg/kg body weight yo-foetal toxicity, No teratogenic effects evelopment obit
Repro sessr	oductive toxicity - As- ment	: Suspected of	damaging the unborn child.
Sodi	um hydroxymethanes	ulphinate:	
Effec	ts on fertility	reproduction/ Species: Rat Application R	oute: Ingestion D Test Guideline 422
Effec ment	ts on foetal develop-	Species: Rat Application R	oute: Ingestion D Test Guideline 414
Repro sessr	oductive toxicity - As- nent	: Some eviden animal exper	ce of adverse effects on development, based on iments.

STOT - single exposure

Not classified based on available information.



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	1313899-00020	Date of first issue: 20.02.2017

STOT - repeated exposure

Not classified based on available information.

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
11	exposure.

Repeated dose toxicity

Components:

2-Pyrrolidone:

: 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

Dog

125 mg/kg

250 mg/kg

:

:

:

Species NOAEL LOAEL Application Route Exposure time Target Organs Remarks

Species NOAEL LOAEL

Application Route Exposure time

Target Organs

:	Oral
:	12 Months
:	Testis
:	Significant toxicity observed in testing
:	Rat
:	40 mg/kg
:	100 mg/kg
:	Intraperitoneal
:	14 Days



Oxytetracycline / Diclofenac Liquid Formulation

Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
Benz	yl alcohol:		
	EL cation Route sure time	: Rat : 1,072 mg/l : inhalation (dus : 28 Days : OECD Test Gu	
Sodi	um [2-[(2,6-dichlorop	henyl)amino]phenyl]	acetate:
Expo		: Rat : 0,25 mg/kg : Oral : 98 w : Gastrointestina	al tract, Blood, lymphatic system, Liver, Prostate
Expo		: Dog : 1 mg/kg : Oral : 12 w : Blood	
Expo	EL EL cation Route sure time et Organs	: Baboon : 0,5 mg/kg : 5 mg/kg : Oral : 52 w : Gastrointestina : constipation, D	
Sodi	um hydroxymethane	sulphinate:	
Spec NOAI Appli		: Rat : 600 mg/kg : Ingestion	

NOAEL	: 600 mg/kg
Application Route	: Ingestion
Exposure time	: 13 Weeks
NOAEL Application Route Exposure time Method	: OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017			
Expe	rience with human e	xposure				
Com	ponents:					
oxyte	etracycline:					
Inges	tion		Symptoms: Gastrointestinal disturbance, tooth discoloration Remarks: May cause birth defects.			
Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:						
Inges	tion		dominal pain, Diarrhoea, constipation, heart- n, Dizziness, Headache, Breathing difficulties,			

SECTION 12: Ecological information

12.1 Toxicity

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		



Version 4.0	Revision Date: 28.09.2024		9S Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017	
Toxicit plants	Toxicity to algae/aquatic plants		: EC50 (Anabaena): 0,032 mg/l Exposure time: 72 h		
			NOEC (Anabaena Exposure time: 72		
M-Fact icity)	tor (Acute aquatic tox-	:	10		
Toxicit	Toxicity to microorganisms		: EC50 : 17,9 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209		
			NOEC : 0,2 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition	
M-Fact toxicity	tor (Chronic aquatic ′)	:	10		
Benzy	l alcohol:				
	y to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To		
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
	y to daphnia and other c invertebrates (Chron- ity)	:	NOEC: 51 mg/l Exposure time: 21 Species: Daphnia Method: OECD To	magna (Water flea)	
Sodiu	m [2-[(2,6-dichlorophe	nvl)aminolphenvllac	etate:	
	y to fish	:		s promelas (fathead minnow)): 166,6 mg/l ১ h	
Toxicit	y to daphnia and other	:	EC50 (Daphnia m	agna (Water flea)): 80,1 mg/l	



Version 4.0	Revision Date: 28.09.2024		9S Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017	
aqu	aquatic invertebrates		Exposure time: 48 h Method: OECD Test Guideline 202		
	Toxicity to algae/aquatic plants		EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokirchneriella subcapitata (green algae)): 49,2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
Tox icity	icity to fish (Chronic tox-)	:	NOEC: 0,32 mg/l Exposure time: 32 Species: Pimepha Method: OECD Te	ales promelas (fathead minnow)	
aqu	icity to daphnia and other atic invertebrates (Chron- oxicity)	:	NOEC: 10 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)	
II Soc	lium hydroxymethanesu	Inhi	inato		
	icity to fish	:		dus (Golden orfe)): > 10.000 mg/l 3 h	
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
Tox plar	icity to algae/aquatic nts	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te		
			NOEC (Desmode Exposure time: 72 Method: OECD Te		
Тох	icity to microorganisms	:	: NOEC : 10 mg/l Exposure time: 4 h		
Tox icity	icity to fish (Chronic tox-)	:	 NOEC: 13,5 mg/l Exposure time: 35 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210 		
aqu	icity to daphnia and other atic invertebrates (Chron- oxicity)	:	EC10: 8 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211		



Version 4.0	Revision Date: 28.09.2024	•	DS Number: 313899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
12 2 Porsi	stence and degradab	ility		
_	•	iiity		
Comp	oonents:			
2-Pyr	rolidone:			
Biode	gradability	:	Result: Readily b Remarks: Based	iodegradable. on data from similar materials
Benz	yl alcohol:			
'	gradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %

Sodium hydroxymethanesulphinate:

Biodegradability :	Result: Readily biodegradable. Biodegradation: 77 % Exposure time: 28 d Method: OECD Test Guideline 301B
--------------------	---

12.3 Bioaccumulative potential

2-Pyrrolidone:

Partition coefficient: n- octanol/water	:	log Pow: -0,71 Method: OECD Test Guideline 107
--	---	---

Benzyl alcohol:

Partition coefficient: n-	:	log Pow: 1,05
octanol/water		

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

Partition coefficient: n- octanol/water	:	log Pow: 4,51
octanol/water		

Sodium hydroxymethanesulphinate:

Partition coefficient: n-	:	log Pow: < 0,3
octanol/water		

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	1313899-00020	Date of first issue: 20.02.2017

12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	are not product specific, bu	Waste Catalogue, Waste Codes t application specific. signed by the user, preferably in disposal authorities.
Contaminated packaging	Empty containers should be dling site for recycling or dis	e taken to an approved waste han-

SECTION 14: Transport information

14.1 UN number or ID number

:	UN 3082
:	UN 3082
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxytetracycline)
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxytetracycline)
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	:



Version 4.0	Revision Date: 28.09.2024		0S Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
			(oxytetracycline)	
IMDG	3	:	ENVIRONMENTA N.O.S. (oxytetracycline)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
ΙΑΤΑ		:	Environmentally h (oxytetracycline)	nazardous substance, liquid, n.o.s.
14.3 Tran	sport hazard class(es)			
			Class	Subsidiary risks
ADN		:	9	
ADR		:	9	
RID		:	9	
IMDO	6	:	9	
ΙΑΤΑ		:	9	
14.4 Pack	king group			
ADN				
Packi Class	ing group sification Code rd Identification Number Is	:	III M6 90 9	
ADR	-	-	-	
Packi Class Haza Labe	ing group sification Code rd Identification Number Is el restriction code	:	III M6 90 9 (-)	
RID				
Class	ing group sification Code rd Identification Number Is	:	III M6 90 9	
Labe	ing group	:	III 9 F-A, S-F	
	(Cargo) ing instruction (cargo	:	964	
Packi	ing instruction (LQ) ing group	:	Y964 III Miscellaneous	
Packi	(Passenger) ing instruction (passen- ircraft)	:	964	

Commission Regulation (EU) 2020/878



Oxytetracycline / Diclofenac Liquid Formulation

Vers 4.0	sion	Revision Date: 28.09.2024		DS Number: 13899-00020	Date of last issue: 06.04.2024 Date of first issue: 20.02.2017
	Packing Packing Labels	g instruction (LQ) g group	:	Y964 III Miscellaneous	
14.5	Enviro	nmental hazards			
	ADN Environ	mentally hazardous	:	yes	
	ADR Environ	mentally hazardous	:	yes	
	RID Environ	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
	•	Passenger) Imentally hazardous	:	yes	
	IATA (C Environ	Cargo) mentally hazardous	:	yes	

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the fol-: lowing entries should be considered: Number on list 3

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or Commission Regulation (EU) 2020/878



Oxytetracycline / Diclofenac Liquid Formulation

Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313899-00020		of last issue: 06.04. of first issue: 20.02.	
				not.	
REAC	CH - Candidate List of	Substances of Very Hi	ah :	Not applicable	
	ern for Authorisation (/		9		
		s subject to authorisation	on :	Not applicable	
· ·	ex XIV)				
	lation (EC) on substan	ces that deplete the or	zone :	Not applicable	
layer	lation (EU) 2010/1021	on porsistant organia	nollu i	Not appliable	
•	(recast)	on persistent organic	poliu	Not applicable	
		12 of the European Pa	rlia- :	Not applicable	
•	. ,	erning the export and ir			
of dar	ngerous chemicals	U 1	•		
		8/EU of the European		nt and of the Counc	cil on the control of
major	-accident hazards invo	olving dangerous subs	tances.	Ouroratity (1	Quentity 2

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

Full text of H-Statements

H301 :	Toxic if swallowed.
H302 :	Harmful if swallowed.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H319 :	Causes serious eye irritation.
H341 :	Suspected of causing genetic defects.
H360D :	May damage the unborn child.
H360FD :	May damage fertility. May damage the unborn child.



Oxytetracycline / Diclofenac Liquid Formulation

Version	Revision Date:	S	OS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	13	13899-00020	Date of first issue: 20.02.2017
H361d	1	:	Suspected of dan	naging the unborn child.
H372		:	Causes damage texposure.	to organs through prolonged or repeated
H400		:	Very toxic to aqua	atic life.
H410		:	Very toxic to aqua	atic life with long lasting effects.
H411		:	: Toxic to aquatic life with long lasting effects.	
EUH0	32	:	Contact with acids liberates very toxic gas.	
Full te	ext of other abbreviati	ons		
Acute	Tox.	:	Acute toxicity	
Aquat	ic Acute	:	Short-term (acute) aquatic hazard
Aquat	ic Chronic	:	Long-term (chron	ic) aquatic hazard
Eye Ir	rit.	:	Eye irritation	
Muta.		:	Germ cell mutage	enicity
Repr.		:	Reproductive toxi	city
Skin I	rit.	:	Skin irritation	
Skin S	Sens.	:	Skin sensitisation	
STOT	RE	:	Specific target or	gan toxicity - repeated exposure
FOR-2	2011-12-06-1358	:	Norway. Occupat	ional Exposure limits
FOR-2 TWA	2011-12-06-1358 /	:	Long term exposi	ure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate: 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	1313899-00020	Date of first issue: 20.02.2017

- United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

Classification of the mixture:		Classification procedure:
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 1A	H360FD	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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

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.

NO / EN