

Versior 4.0	Revision Date: 28.09.2024	-	S Number: 3820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017			
SECTION 1: Identification of the substance/mixture and of the company/undertaking							
1.1 Pro	duct identifier						
Tra	ade name	:	Oxytetracycline /	Diclofenac Liquid Formulation			
1.2 Relevant identified uses of t Use of the Sub- stance/Mixture			he substance or mixture and uses advised against : Veterinary product				
Recommended restrictions on use		:	: Not applicable				
1.3 Det	ails of the supplier of the	e safe	ty data sheet				
Company		:	MSD 20 Spartan Road 1619 Spartan, South Africa				
Те	lephone	:	+27119239300				

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-	H400: Very toxic to aquatic life.				
gory 1					
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)

Hazard pictograms





Version 4.0	Revision Date: 28.09.2024	-	DS Number: 313820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017		
Signal word		:	Danger			
Hazard statements		:	 H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H360FD May damage fertility. May damage the unborchild. H410 Very toxic to aquatic life with long lasting effects. 			
Precautionary statements		:	P273 Avoid relea	ecial instructions before use. ase to the environment. ective gloves/ protective clothing/ eye protec- n.		
			attention.	exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical llage.		

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 tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-Pyrrolidone	616-45-5 210-483-1	Eye Irrit. 2; H319 Repr. 1B; H360FD	>= 30 - < 50
oxytetracycline	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	>= 20 - < 25



Version 4.0	Revision Date: 28.09.2024	SDS Ni 131382	umber: 0-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017	
Benzy	l alcohol		100-51-6 202-859-9 603-057-00-5	M-Factor (Chronic aquatic toxicity): 10 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
	m [2-[(2,6- rophenyl)amino]phen	yl]acetate	15307-79-6 239-346-4	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 - < 1
Sodiur	m hydroxymethanesu	Iphinate	149-44-0 205-739-4	Muta. 2; H341 Repr. 2; H361d	>= 0,1 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.
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.



Versio 4.0		evision Date: 3.09.2024		S Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017				
				Rinse mouth the	proughly with water.				
4.2 Mc	ost impo	rtant symptoms ar	nd e	effects, both acu	ite and delayed				
R	isks		:	: May cause an allergic skin reaction.					
				Causes serious May damage fe	eye irritation. rtility. May damage the unborn child.				
		•	mec		nd special treatment needed				
Tı	reatment		:	Treat symptomatically and supportively.					
SECT	ION 5:	Firefighting meas	sur	es					
5.1 Ex	tinguish	ing media							
S	uitable e	xtinguishing media	:	Water spray					
				Alcohol-resistar Carbon dioxide					
				Dry chemical	(002)				
	Unsuitable extinguishing : media			None known.					
5.2 Sp	ecial ha	zards arising from	the	substance or r	nixture				
	pecific ha ghting	azards during fire-	:	Exposure to co	nbustion products may be a hazard to health.				
	azardou: cts	s combustion prod-	:	Carbon oxides Nitrogen oxides (NOx)					
11 53 Ad	lvice for	firefighters							
		otective equipment		In the event of f	ire, wear self-contained breathing apparatus.				
		ters	•		rotective equipment.				
	•	xtinguishing meth-	:		ng measures that are appropriate to local cir-				
00	ds				d the surrounding environment. / to cool unopened containers.				
					aged containers from fire area if it is safe to de				
				SO.					
				Evacuate area.					

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).



Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017			
6.2 Enviro	onmental 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 Metho	ds and material for co	ntainment and clean	ing up			
Methods for cleaning up		For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. 15 of this SDS provide information regarding hational 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,



Version 4.0	Revision Date: 28.09.2024	SDS Num 1313820-(Date of last issue: 30.09.2023 Date of first issue: 20.02.2017	
		indust	ial hygiene	wning and decontamination procedures, monitoring, medical surveillance and the tive controls.	
7.2 Condi	tions for safe storage,	including a	ny incom	patibilities	
Requirements for storage areas and containers		tightly	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.		
Advice on common storage :		Strong Self-re Organ Explos	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases		
-	f ic end use(s) fic use(s)	: No da	a available		

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	OEL-RL	10 mg/m3	ZA OEL
-			(Magnesium)	
	Further inform	nation: Occupational	Exposure Limits - Restricted	Limits For
	Hazardous Cl	nemical Agents	-	
Sodium [2-[(2,6- dichloro- phe-	15307-79-6	TWA	100 µg/m3 (OEB 2)	Internal
nyl)amino]phenyl]a cetate				
	Further inform	nation: 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	17,1 mg/m3



rsion	Revision Date: 28.09.2024	SDS Nu 1313820		of last issue: 30.09.2023 of first issue: 20.02.2017	
11				effects	
		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
Benzy	/l 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- fects	27 mg/m3
		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
	m 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/c

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



1

Oxytetracycline / Diclofenac Liquid Formulation

Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313820-00018	Date of last issue: 30 Date of first issue: 20	
		Sewage treat	ment plant	39 mg

	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.)

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.
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.
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

Appearance Colour Odour Odour Threshold	:	liquid light brown No data available No data available
рН	:	8,3 - 9,0 (as aqueous solution)
Melting point/freezing point	:	No data available



Vers 4.0	sion	Revision Date: 28.09.2024		S Number: 3820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
	Initial h	oiling point and boiling		No data available	
	range	oiling point and boiling	:	No data available	3
	Flash p	oint	:	No data available	9
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	,	:	1,05 - 1,18 g/cm ²	3
	Solubili				
		er solubility n coefficient: n-	:	soluble No data available	9
	octanol	/water nition temperature		No data available	
	-		•		
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	47,62 mm2/s	
		ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other in	formation			
		ability (liquids)	:	No data available	9
	Molecu	lar weight	:	No data available	9
	Particle	size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.



Version 4.0	Revision Date: 28.09.2024		S Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
10.2 Chemi	cal stability			
Stable (under normal condition	s.		
10.3 Possib	oility of hazardous rea	ictic	ons	
Hazard	ous reactions	:	Can react with st	rong oxidizing agents.
	ions to avoid			
Conditio	ons to avoid	:	None known.	
10.5 Incom	patible materials			
Materia	lls to avoid	:	Oxidizing agents	
10.6 Hazard	lous decomposition p	oroc	ducts	
No haz	ardous decomposition	proc	ducts are known.	
SECTION [·]	11: Toxicological in	for	mation	
11.1 Inform	ation on toxicologica	l eff	fects	
Informa	ation on likely routes of		Inhalation	
exposu	-	•	Skin contact Ingestion Eye contact	
exposu Acute t	re		Ingestion Eye contact	
exposu Acute t	re toxicity ssified based on availa		Ingestion Eye contact	
exposu Acute t Not clas <u>Produc</u>	re toxicity ssified based on availa		Ingestion Eye contact information.	mate: > 2.000 mg/kg on method
exposu Acute t Not clas <u>Produc</u>	re toxicity ssified based on availa <u>ct:</u> oral toxicity	ble	Ingestion Eye contact information. Acute toxicity estin	5 5
exposu Acute t Not clas <u>Produc</u> Acute c	re toxicity ssified based on availa <u>ct:</u> pral toxicity pnents:	ble	Ingestion Eye contact information. Acute toxicity estin	3 3
exposu Acute t Not clas <u>Produc</u> Acute c <u>Compo</u> 2-Pyrrc	re toxicity ssified based on availa <u>ct:</u> oral toxicity	ble :	Ingestion Eye contact information. Acute toxicity esti Method: Calculation LD50 (Rat): > 2.00 Method: OECD To	on method
exposu Acute to Not class Produce Acute co 2-Pyrro Acute co	re toxicity ssified based on availa <u>st:</u> oral toxicity onents: olidone:	ble :	Ingestion Eye contact information. Acute toxicity esti Method: Calculation Method: OECD To Assessment: The icity LD50 (Rabbit): > 2 Method: OECD To	on method 00 mg/kg est Guideline 401 substance or mixture has no acute oral tox- 2.000 mg/kg
exposu Acute to Not class Produce Acute co 2-Pyrroc Acute co Acute co	re toxicity ssified based on availa <u>ct:</u> oral toxicity onents: olidone: oral toxicity	ble :	Ingestion Eye contact information. Acute toxicity estin Method: Calculation Method: OECD To Assessment: The icity LD50 (Rabbit): > 2 Method: OECD To Assessment: The	on method 00 mg/kg est Guideline 401 substance or mixture has no acute oral tox- 2.000 mg/kg est Guideline 402
exposu Acute to Not class Produce Acute co 2-Pyrroc Acute co Acute co	re toxicity ssified based on availa <u>st:</u> oral toxicity onents: olidone: oral toxicity dermal toxicity	ble :	Ingestion Eye contact information. Acute toxicity estin Method: Calculation Method: OECD To Assessment: The icity LD50 (Rabbit): > 2 Method: OECD To Assessment: The	on method 00 mg/kg est Guideline 401 substance or mixture has no acute oral tox- 2.000 mg/kg est Guideline 402 substance or mixture has no acute dermal
exposu Acute to Not class Produce Acute co 2-Pyrroc Acute co Acute co	re toxicity ssified based on availa <u>ct:</u> pral toxicity pnents: plidone: pral toxicity dermal toxicity racycline:	ble :	Ingestion Eye contact information. Acute toxicity estii Method: Calculation Method: OECD To Assessment: The icity LD50 (Rabbit): > 2 Method: OECD To Assessment: The toxicity LD50 (Rat): 4.800 LD50 (Mouse): 2.2	on method 00 mg/kg est Guideline 401 substance or mixture has no acute oral tox- 2.000 mg/kg est Guideline 402 substance or mixture has no acute dermal mg/kg



rsion Revision Date: 28.09.2024		9S Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
11			
Acute dermal toxicity	:	Remarks: No dat	a available
Acute toxicity (other routes administration)	of :	LD50 (Rat): 4.84 Application Route	
		LD50 (Mouse): 3 Application Route	
Benzyl alcohol:			
Acute oral toxicity	:	LD50 (Rat): 1.20	0 mg/kg
Acute inhalation toxicity	:		h
Sodium [2-[(2,6-dichlorop	henyl)amino]phenyl]ac	cetate:
Acute oral toxicity	:	LD50 (Rat): 55 - 2	240 mg/kg
		LD50 (Mouse): 1	70 - 389 mg/kg
Acute toxicity (other routes administration)	of :	LD50 (Rat): 97 - Application Route	
		LD50 (Mouse): 9 Application Route	
Sodium hydroxymethane	sulphi	nate:	
Sodium hydroxymethanes Acute oral toxicity	sulphi :	LD50 (Rat): > 2.0 Method: OECD T	000 mg/kg est Guideline 423 substance or mixture has no acute oral tox

Skin corrosion/irritation

Not classified based on available information.

Components:

2-Pyrrolidone:

Species Method Result	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation



ersion 0	Revision Date: 28.09.2024	SDS Number: 1313820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
oxyte	tracycline:		
Rema	rks	: No data avai	lable
Benzy	/l alcohol:		
Speci	es	: Rabbit	
Metho			Guideline 404
Resul	t	: No skin irrita	tion
		phenyl)amino]phen	yl]acetate:
Resul	t	: irritating	
Sodiu	m hydroxymethan	esulphinate:	
Speci		: Rat	
Resul	t	: No skin irrita	tion
Serio	us eye damage/eye	irritation	
Cause	es serious eye irritati	on.	
<u>Comp</u>	oonents:		
2-Pyr	rolidone:		
Speci		: Rabbit	
Resul	t	: Irritation to e	yes, reversing within 7 days
oxyte	tracycline:		
Rema	rks	: No data avai	lable
Benzy	/l alcohol:		
Speci	es	: Rabbit	
Metho			Guideline 405
Resul	t	: Irritation to e	yes, reversing within 21 days
Sodiu	m [2-[(2,6-dichloro	phenyl)amino]phen	yl]acetate:
Resul	t	: Mild eye irrita	ation
Sodiu	m hydroxymethan	esulphinate:	
Speci		: Rabbit	
Metho		: OECD Test (Guideline 405
Resul	t	: No eye irritat	ion
Respi	ratory or skin sens	itisation	
Skin s	sensitisation		
Movie	ause an allergic skir	reaction	

Not classified based on available information.



Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
Comp	onents:		
2-Pvrr	rolidone:		
Test T		: Local lymph	node assay (LLNA)
Expos	sure routes	: Skin contact	
Specie	sure routes es	: Mouse	
Metho	d		Guideline 429
Result		: negative	
Rema	rks	: Based on da	ata from similar materials
oxyte	tracycline:		
Test T			at insult patch test (HRIPT)
Result	t	: Sensitiser	
Benzy	/l alcohol:		
	-	: Human repe	at insult patch test (HRIPT)
Expos	sure routes	: Skin contact	
Opcore		: Humans	
Result	t	: positive	
Asses	sment	: Probability o rate in huma	r evidence of low to moderate skin sensitisation
Sadiu	m by drew mether ee	ulahinata	
	m hydroxymethanes	-	- T
Expos	ype ure routes	: Maximisation : Skin contact	
Specie	ype sure routes es	: Guinea pig	
Metho			Guideline 406
Result	t	: negative	
Germ	cell mutagenicity		
	assified based on avai	lable information.	
<u>Comp</u>	onents:		
2-Pyrı	rolidone:		
Genot	oxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Method: OE	n vitro mammalian cell gene mutation test D Test Guideline 476
		Result: nega Remarks: Ba	ased on data from similar materials
			Chromosome aberration test in vitro CD Test Guideline 473 ative
Genot	oxicity in vivo	: Test Type: N cytogenetic Species: Mo	



Version 4.0	Revision Date: 28.09.2024		DS Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
				e: Intraperitoneal injection Test Guideline 474
	etracycline: otoxicity in vitro	:	Test Type: Microl Result: negative	bial mutagenesis assay (Ames test)
			Test Type: Mouse Metabolic activati Result: positive	e Lymphoma ion: Metabolic activation
				chromatid exchange assay nese hamster ovary cells
			Test Type: Chron Result: negative	nosomal aberration
Geno	otoxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone n Application Route Result: equivocal	narrow e: Oral
			Test Type: in vivo Species: Mouse Application Route Result: negative	o 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:			
	toxicity 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 y) e: Intraperitoneal injection
II Sodii	um [2-[(2,6-dichloroph	env	aminolphenyllar	etate.
	otoxicity in vitro	:	, , .	rial reverse mutation assay (AMES)
			Test Type: Mouse Result: negative	e Lymphoma
Geno	otoxicity in vivo	:	Test Type: Chron	nosomal aberration



ersion 0	Revision Date: 28.09.2024		S Number: 3820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
			Species: CHO Result: negative	
II Sodiu	ım hydroxymethanesı	ılphiı	nate:	
	toxicity in vitro	:	Test Type: Bacte	rial reverse mutation assay (AMES) Fest Guideline 471
				o mammalian cell gene mutation test Test Guideline 476
Geno	toxicity in vivo		cytogenetic assa Species: Mouse Application Rout	malian erythrocyte micronucleus test (in viv y) e: Intraperitoneal injection Fest Guideline 474
Germ sessn	cell mutagenicity- As- nent		Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta
	<u>oonents:</u> rolidone:			
Speci			Mouse	
	cation Route		Ingestion	
Expos	sure time		18 month(s) negative	
Rema	-			om similar materials
oxyte	tracycline:			
Speci		:	Mouse	
Applic	cation Route		Oral	
Expos Resul	sure time It		104 weeks negative	
Speci			Rat	
	cation Route sure time		Oral 103 weeks	
Resu			equivocal	
	et Organs		Adrenal gland, P	ituitary gland
Rema	arks	:		or mode of action may not be relevant in hu
Carcii ment	· · · · · · · · · · · · · · · · · · ·		Weight of eviden	ce does not support classification as a car-

Revision Date:

28.09.2024

Version

4.0



Date of last issue: 30.09.2023

Date of first issue: 20.02.2017

Oxytetracycline / Diclofenac Liquid Formulation

SDS Number:

1313820-00018

Benzyl alcohol:		
Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	103 weeks
Method	:	OECD Test Guideline 451
Result	:	negative
Sodium [2-[(2,6-dichlorophe	anvi)aminoInhenvllacetate:
-		
Species	-	Rat
Application Route	-	Oral
Exposure time	•	2 Years
Result	:	negative
Species	:	Mouse
Application Route	÷	Oral
Exposure time	•	2 Years
Result	÷	negative
	•	
Reproductive toxicity		
May damage fertility. May dar	maa	e the unborn child.
Components:		
2-Pyrrolidone:		
Effects on fertility	:	Test Type: One-generation reproduction toxicity study
, í		Species: Rat
		Application Route: Ingestion
		Result: positive
		Result: positive Remarks: Based on data from similar materials
Effects on foetal develop-	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development
Effects on foetal develop- ment	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat
-	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion
-	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat
ment	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive
ment Reproductive toxicity - As-	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f
ment	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve
ment Reproductive toxicity - As-	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f
ment Reproductive toxicity - As-	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve
ment Reproductive toxicity - As- sessment	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve
ment Reproductive toxicity - As- sessment oxytetracycline:	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments.
ment Reproductive toxicity - As- sessment oxytetracycline:	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments. Test Type: Two-generation reproduction toxicity study Species: Rat
ment Reproductive toxicity - As- sessment oxytetracycline:	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments. Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral
ment Reproductive toxicity - As- sessment oxytetracycline:	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments. Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 18 mg/kg body weight
ment Reproductive toxicity - As- sessment oxytetracycline:	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments. Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 18 mg/kg body weight
ment Reproductive toxicity - As- sessment oxytetracycline: Effects on fertility	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments. Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 18 mg/kg body weight Result: No effects on fertility, No effect on reproduction ca ity, No significant adverse effects were reported
ment Reproductive toxicity - As- sessment oxytetracycline: Effects on fertility Effects on foetal develop-	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments. Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 18 mg/kg body weight Result: No effects on fertility, No effect on reproduction cal ity, No significant adverse effects were reported Test Type: Embryo-foetal development
ment Reproductive toxicity - As- sessment oxytetracycline: Effects on fertility	: : :	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments. Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 18 mg/kg body weight Result: No effects on fertility, No effect on reproduction ca ity, No significant adverse effects were reported Test Type: Embryo-foetal development Species: Rat
ment Reproductive toxicity - As- sessment oxytetracycline: Effects on fertility Effects on foetal develop-	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments. Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 18 mg/kg body weight Result: No effects on fertility, No effect on reproduction cap ity, No significant adverse effects were reported Test Type: Embryo-foetal development Species: Rat Application Route: Oral
ment Reproductive toxicity - As- sessment oxytetracycline: Effects on fertility Effects on foetal develop-	:	Result: positive Remarks: Based on data from similar materials Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive Clear evidence of adverse effects on sexual function and f ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments. Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 18 mg/kg body weight Result: No effects on fertility, No effect on reproduction ca ity, No significant adverse effects were reported Test Type: Embryo-foetal development Species: Rat



ersion 0	Revision Date: 28.09.2024	SDS Number: 1313820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
		Species: Ra Application General To Embryo-foe Result: No t	
		Species: Mo Application General To Embryo-foe Result: No t	
		Species: Ra Application Embryo-foe	Embryo-foetal development Ibbit Route: Intramuscular tal toxicity: LOAEL: 41,5 mg/kg body weight timplantation loss., No foetal abnormalities
		Species: Do Application Embryo-foe	Embryo-foetal development og Route: Intramuscular tal toxicity: LOAEL: 20,75 mg/kg body weight letal and visceral variations, Postimplantation loss.
Repr sessi	oductive toxicity - As- ment		dence of adverse effects on development from emiological studies.
Benz	yl alcohol:		
	ts on fertility	Species: Ra Application Result: neg	Route: Ingestion
Effec ment	ts on foetal develop-	Species: Mo	Route: Ingestion
II Sodi	um [2 [/2 6 diablaranh		
	um [2-[(2,6-dichloroph tts on fertility	: Test Type: I Species: Ra Application Fertility: NO	Fertility it, male and female
Effec	ts on foetal develop-	: Test Type: I	Development



Version 4.0	Revision Date: 28.09.2024	SDS Number: 1313820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
Repro	ductive toxicity - As-	Result: Emb Test Type: D Species: Ra Application F Developmer Result: Emb	Route: Oral tal Toxicity: LOAEL: 1 mg/kg body weight ryo-foetal toxicity, No teratogenic effects Development obit
sessm			
Sodiu	m hydroxymethanesu	Iphinate:	
Effects	s on fertility	reproduction Species: Ra Application I	Route: Ingestion CD Test Guideline 422
Effects	s on foetal develop-	Species: Ra Application	Route: Ingestion CD Test Guideline 414
Repro sessm	ductive toxicity - As- ient	: Some evider animal expe	nce of adverse effects on development, based on riments.
	- single exposure		
Not cla	assified based on availa	able information.	
STOT	- repeated exposure		

Not classified based on available information.

Components:

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

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

Repeated dose toxicity

Components:

2-Pyrrolidone:

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



/ersion 0	Revision Date: 28.09.2024	SDS Number: 1313820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
ovyte	etracycline:		
Speci		: Rat	
LOAE		: 198 mg/kg	
	cation Route	: Oral	
	sure time	: 13 Weeks	
	et Organs	: Bone	
Rema	arks		dverse effects were reported
Speci		: Mouse	
LOAE		: 7.990 mg/kg	
	cation Route	: Oral	
	sure time	: 13 Weeks	
Targe	et Organs	: Bone	
Rema	arks	: No significant a	dverse effects were reported
Speci NOAE		: Dog : 125 mg/kg	
LOAE		: 250 mg/kg	
	cation Route	: Oral	
	sure time	: 12 Months	
	et Organs	: Testis	
Rema			sity observed in testing
Speci	es	: Rat	
NOAE		: 40 mg/kg	
LOAE		: 100 mg/kg	
Applic	cation Route	: Intraperitoneal	
Expo	sure time	: 14 Days	
I arge	et Organs	: Kidney	
Benz	yl alcohol:		
Speci	es	: Rat	
NOA		: 1,072 mg/l	
Applic	cation Route	: inhalation (dust	/mist/fume)
Expo	sure time	: 28 Days	
Metho	DO	: OECD Test Gu	Ideline 412
Sodiu	um [2-[(2,6-dichloro	phenyl)amino]phenyl]	acetate:
Speci		: Rat	
LÒAE		: 0,25 mg/kg	
Applic	cation Route	: Oral	
Expo	sure time	: 98 w	
large	et Organs	: Gastrointestina	I tract, Blood, lymphatic system, Liver, Prosta
Speci		: Dog	
LOAE		: 1 mg/kg	
	cation Route	: Oral	
Expo	sure time	: 12 w	
Targe	et Organs	: Blood	



SDS Number: 1313820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
anesulphinate:	
: Rat : 600 mg/kg : Ingestion : 13 Weeks : OECD Test Guid	leline 408
available information.	
an exposure	
	rointestinal disturbance, tooth discoloration ause birth defects.
orophenyl)amino]phenyl]a	cetate:
	ominal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties,
information	
	1313820-00018 : Baboon : 0,5 mg/kg : 5 mg/kg : 0ral : 52 w : Gastrointestinal : : constipation, Dia anesulphinate: : Rat : 600 mg/kg : Ingestion : 13 Weeks : OECD Test Guid n available information. an exposure : Symptoms: Gast Remarks: May construction, Dia : Symptoms: Abdo burn, Ulceration, Dia

. . .

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



Version 4.0	Revision Date: 28.09.2024		DS Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
			Method: OECD To	est Guideline 209
oxv	tetracycline:			
	icity to fish	:	LC50 (Oryzias lat Exposure time: 96 Method: OECD Te	
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
			EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxi plan	icity to algae/aquatic ts	:	EC50 (Anabaena) Exposure time: 72	
			NOEC (Anabaena Exposure time: 72	
M-Faicity)	actor (Acute aquatic tox-)	:	10	
Тохі	icity 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 Te	ation inhibition
M-F	actor (Chronic aquatic city)	:	10	
Ben	zyl alcohol:			
Toxi	icity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD To	
Toxi plan	icity to algae/aquatic ts	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokii mg/l	rchneriella subcapitata (green algae)): 310



Version 4.0	Revision Date: 28.09.2024		9S Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
			Exposure time: 72 Method: OECD Te	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC: 51 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
II Sodii	um [2-[(2,6-dichlorophe	nvl)aminolphenyllac	etate:
	ity to fish	:		s promelas (fathead minnow)): 166,6 mg/l ১ h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0,32 mg/l Exposure time: 32 Species: Pimepha Method: OECD Te	ales promelas (fathead minnow)
aquat	ity to daphnia and other tic invertebrates (Chron- icity)	:	 NOEC: 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 	
II Sodiı	um hydroxymethanesu	lphi	nate:	
	ity to fish	:		idus (Golden orfe)): > 10.000 mg/l ò h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te	
			NOEC (Desmode: Exposure time: 72 Method: OECD Te	



Version 4.0	Revision Date: 28.09.2024	-	DS Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017	
Toxic	ity to microorganisms	:	NOEC : 10 mg/l Exposure time: 4	h	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 13,5 mg/l Exposure time: 35 Species: Danio re Method: OECD T	erio (zebra fish)	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 27	n magna (Water flea)	
12.2 Pers	istence and degradabil	ity			
Com	ponents:				
2-Py	rrolidone:				
Biode	egradability	:	,	odegradable. on data from similar materials	
Benz	yl alcohol:				
Biode	egradability	:	Result: Readily bi Biodegradation: 9 Exposure time: 14	92 - 96 %	
Sodi	um hydroxymethanesu	lph	inate:		
Biode	egradability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	77 %	
12.3 Bioaccumulative potential					
<u>Com</u>	ponents:				

2-Pyrrolidone:

z i ynondone.		
Partition coefficient: n- octanol/water	:	log Pow: -0,71 Method: OECD Test Guideline 107
Benzyl alcohol:		
Partition coefficient: n- octanol/water	:	log Pow: 1,05
Sodium [2-[(2,6-dichloroph	enyl)	amino]phenyl]acetate:
Partition coefficient: n- octanol/water	:	log Pow: 4,51
Sodium hydroxymethanesu	ılphi	nate:
Partition coefficient: n-	:	log Pow: < 0,3



Version 4.0	Revision Date: 28.09.2024		DS Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017					
octanc	ol/water								
	12.4 Mobility in soil No data available								
12.5 Resul	ts of PBT and vPvB a	sse	ssment						
<u>Produ</u> Asses		:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of					
12.6 Other	adverse effects								
Produ	ict:								
Endoc tial	rine disrupting poten-	:	ered to have ende REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.					
SECTION	13: Disposal consi	dera	ations						

13.1	Waste	treatment	methods

Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes
		are not product specific, but application specific.
		Waste codes should be assigned by the user, preferably in
		discussion with the waste disposal authorities.
		Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste han-
		dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082

14.2 UN proper shipping name

Α	DN

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



Versio 4.0	on	Revision Date: 28.09.2024		OS Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
ļ	ADR		:	ENVIRONMENTA N.O.S. (oxytetracycline)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
F	RID		:	ENVIRONMENTA N.O.S. (oxytetracycline)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
I	MDG		:	ENVIRONMENTA N.O.S. (oxytetracycline)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
L	ΑΤΑ		:	Environmentally h (oxytetracycline)	nazardous substance, liquid, n.o.s.
14.3 1	Transp	oort hazard class(es)			
				Class	Subsidiary risks
A	ADN		:	9	
A	ADR		:	9	
F	RID		:	9	
I	MDG		:	9	
L	ΑΤΑ		:	9	
14.4 F	Packir	ng group			
F C F	Classif	g group ication Code I Identification Number	:	III M6 90 9	
F C L	ADR Packin Classif Hazard ∟abels	g group ication Code I Identification Number restriction code	:	III M6 90 9 (-)	
F C H	Classif	g group ication Code I Identification Number	: : : : : : : : : : : : : : : : : : : :	III M6 90 9	
F	MDG Packing Labels EmS C	g group ode	:	III 9 F-A, S-F	
F 2 F	Packin aircraft Packin	Cargo) g instruction (cargo) g instruction (LQ) g group	:	964 Y964 III	



Vers 4.0	sion	Revision Date: 28.09.2024		DS Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017
	Labels		:	Miscellaneous	
		Passenger) g instruction (passen- craft)	:	964	
	Packing instruction (LQ) Packing group Labels		:	Y964 III Miscellaneous	
14.5	5 Enviro	nmental hazards			
	ADN Enviror	nmentally hazardous	:	yes	
	ADR Enviror	mentally hazardous	:	yes	
	RID Enviror	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) nmentally hazardous	:	yes	
	IATA (Enviror	Cargo) nmentally hazardous	:	yes	
14.6	Specia	I precautions for use	er		
					or informational purposes only, and solely

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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

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



Vers 4.0	sion	Revision Date: 28.09.2024		S Number: 13820-00018	Date of last issue: 30.09.2023 Date of first issue: 20.02.2017		
	Other information		:		ges have been made to the previous version the body of this document by two vertical		
	Full tex	t 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 u			
	H360FD		:	May damage fertil	ity. May damage the unborn child.		
	H361d		:		aging the unborn child.		
	H372		:		o organs through prolonged or repeated		
				exposure.			
	H400		Very toxic to aquatic life.Very toxic to aquatic life with long lasting effects.				
	H410						
	H411		:	I oxic to aquatic lif	e with long lasting effects.		
	Full text of other abbreviations						
	Acute T	OX.	:	Acute toxicity			
	Aquatic	Acute	:	Short-term (acute)) aquatic hazard		
	Aquatic Chronic		:	Long-term (chroni	c) aquatic hazard		
	Eye Irrit.		:	Eye irritation			
	Muta.		:	Germ cell mutage			
	Repr.		:	Reproductive toxic	city		
	Skin Irri		:	Skin irritation			
	Skin Se		:	Skin sensitisation			
	STOT F		:		an toxicity - repeated exposure		
	ZA OEL	-	:		Regulations for Hazardous Chemical		
					onal Exposure Limits		
	ZA UEL	_ / OEL-RL	·	sure or equivalent	osure Limit Restricted limit - 8- hour expo-		
					· · ·		
	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 Test- ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula- tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard						

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;



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
4.0	28.09.2024	1313820-00018	Date of first issue: 20.02.2017

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 - 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 compile the Safety DataInternal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
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Classification of the r	nixture:	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.

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