

Vers 6.0	sion	Revision Date: 06.07.2024		OS Number: 44802-00013	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019	
SECTION 1: Identification of the substance/mixture and of the company/undertaking						
1.1 F	Product	tidentifier				
	Trade r	name	:	Betamethasone /	Gentamicin Formulation	
	Use of	it identified uses of t the Sub- ⁄Mixture		ubstance or mixto Veterinary produc	ure and uses advised against ^{xt}	
	Recom on use	mended restrictions	:	Not applicable		
1.3 E	Details	of the supplier of the	saf	ety data sheet		
	Compa	ny	:	MSD 20 Spartan Road 1619 Spartan, So	outh Africa	
	Teleph	one	:	+27119239300		
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com	
1.4 E	-	ncy telephone numb	er			

+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 Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure, Category 1 Long-term (chronic) aquatic hazard, Category 1 H319: Causes serious eye irritation. H360D: May damage the unborn child. H372: Causes damage to organs through prolonged or repeated exposure. H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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2

Hazard pictograms

Signal word

Hazard statements



H319 Causes serious eye irritation. H360D May damage the unborn child.



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		peated exposure	damage to organs through prolonged or re- c to aquatic life with long lasting effects.		
Precautionary statements		P273 Avoid rel P280 Wear pro	P201 Obtain special instructions before use.P273 Avoid release to the environment.		
		attention.	F exposed or concerned: Get medical advice/ f eye irritation persists: Get medical advice/ pillage.		

Hazardous components which must be listed on the label: betamethasone

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Propan-2-ol	67-63-0 200-661-7 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 10 - < 20
Methyl p-Hydroxybenzoate	99-76-3 202-785-7	Aquatic Chronic 2; H411	>= 1 - < 2,5
Gentamicin	1403-66-3 215-765-8	Repr. 1A; H360D STOT RE 1; H372 (Kidney, inner ear) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic	>= 0,025 - < 0,1



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betan	nethasone	378-44-9 206-825-4	aquatic toxicity): 1Acute Tox. 2; H330Repr. 1B; H360DSTOT RE 1; H372(Pituitary gland, Immune system, muscle, thymus gland, Blood, Ad- 	>= 0,025 - < 0,1	

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. Rinse mouth thoroughly with water.
4.2	Most important symptoms and	effects, both acute and delayed
		Causes serious eve irritation

Risks : Causes serious eye irritation. May damage the unborn child.



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			Causes damage exposure.	e to organs through prolonged or repeated
4.3 Inc	lication of any immediate	med	lical attention a	nd special treatment needed
Tr	reatment	:	Treat symptoma	atically and supportively.
SECT	ION 5: Firefighting mea	sur	es	
5.1 Ex	tinguishing media			
Si	uitable extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical	
	nsuitable extinguishing edia	:	None known.	
5.2 Sp	ecial hazards arising fron	n the	substance or r	nixture
	pecific hazards during fire- ghting	:	Exposure to co	mbustion products may be a hazard to health.
	azardous combustion prod- cts	:	Carbon oxides	
5.3 Ad	vice for firefighters			
	pecial protective equipment r firefighters	: :		ire, wear self-contained breathing apparatus. rotective equipment.
SI	pecific extinguishing meth- ds	:	cumstances and Use water spra	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. haged containers from fire area if it is safe to d

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.

Local authorities should be advised if significant spillages cannot be contained.



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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up with inert absorbent material.
Methods for cleaning up	
	For large spills, provide dyking or other appropriate contain-
	ment to keep material from spreading. If dyked material can
	be pumped, store recovered material in appropriate container.
	Clean up remaining materials from spill with suitable absor-
	bent.
	Local or national regulations may apply to releases and dis-
	posal of this material, as well as those materials and items
	employed in the cleanup of releases. You will need to deter-
	mine which regulations are applicable.
	Sections 13 and 15 of this SDS provide information regarding
	certain local or national requirements.

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. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed.
	Hygiene measures	:	Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. 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. Wash contami- nated 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, i	ncl	uding any incompatibilities
	Dequiremente for storage		Keep in properly lobelled containers. Store looked up. Keep

- Requirements for storage : 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:



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		Self Org	anic peroxid losives	ostances and mixtures
-	f ic end use(s) ific use(s)	: No	data availabl	e

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No. Value type (Form of exposure)		Control parameters	Basis		
Propan-2-ol	67-63-0	OEL-RL	400 ppm	ZA OEL		
		nation: Occupational nemical Agents	Exposure Limits - Restricted	Limits For		
	OEL- RĽ STEL/C		800 ppm	ZA OEL		
	Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents					
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal		
	Further inform					
betamethasone	378-44-9	TWA	1 μg/m3 (OEB 4)	Internal		
	Further inform	nation: Skin				
		Wipe limit	10 µg/100 cm²	Internal		

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Propan-2-ol	67-63-0	Acetone: 40 mg/l	End of shift at end	ZA BEI
		(Urine)	of workweek	

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
Propan-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3
	Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	89 mg/m3
	Consumers	Skin contact	Long-term systemic	319 mg/kg



mg/m3

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		Consumera	Induction		effects	bw/day
		Consumers	Ingestion		Long-term systemic effects	26 mg/kg bw/day
	Methyl p- Hydroxybenzoate	Workers	Inhalation	Ì	Long-term systemic	58,76 mg/r

Hydroxybenzoate			effects	
	Workers	Skin contact	Long-term systemic effects	9,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	14,49 mg/m3
	Consumers	Skin contact	Long-term systemic effects	4,2 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4,16 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Propylene glycol	Fresh water	260 mg/l
	Freshwater - intermittent	183 mg/l
	Marine water	26 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry weight (d.w.)
	Marine sediment	57,2 mg/kg dry weight (d.w.)
	Soil	50 mg/kg dry weight (d.w.)
Propan-2-ol	Fresh water	140,9 mg/l
	Marine water	140,9 mg/l
	Intermittent use/release	140,9 mg/l
	Sewage treatment plant	2251 mg/l
	Fresh water sediment	552 mg/kg dry weight (d.w.)
	Marine sediment	552 mg/kg dry weight (d.w.)
	Soil	28 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	160 mg/kg food
Methyl p-Hydroxybenzoate	Fresh water	2,4 µg/l
	Freshwater - intermittent	0,112 mg/l
	Marine water	0,24 µg/l
	Sewage treatment plant	2 mg/l
	Fresh water sediment	0,0632 mg/kg dry weight (d.w.)
	Marine sediment	0,00632 mg/kg dry weight (d.w.)
	Soil	0,0115 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted.



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lf h tair		e a p al ex	properly designed b	nologies. iosafety cabinet, fume hood, or other con- ion. If this potential does not exist, handle
Pe	rsonal protective equipn	nent		
Ey	e/face protection	:	If the work enviro mists or aerosols Wear a faceshield	ses with side shields or goggles. nment or activity involves dusty conditions, , wear the appropriate goggles. d or other full face protection if there is a et contact to the face with dusts, mists, or
На	ind protection			
	Material	:	Chemical-resistar	nt gloves
	Remarks in and body protection	:	 Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the being performed (e.g., sleevelets, apron, gauntlets, dispo suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentiated by the statement of the	
Re	spiratory protection	:	sure assessment	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection.
	Filter type	:		lates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

internation on sacio phycical		a ononnoai proporti
Appearance Colour Odour Odour Threshold	:	liquid No data available No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available



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Relat Dens Solut W Partit octar Auto-	bility(ies) ater solubility ion coefficient: n- iol/water ignition temperature	 No data available No data available No data available No data available Not applicable No data available No data available 	
Visco Vi	mposition temperature sity scosity, kinematic sive properties	 No data available No data available Not explosive 	
	zing properties	: The substance or mixture is not classified as oxidizing].
Flam Mole	information mability (liquids) cular weight cle size	 No data available No data available Not applicable 	

SECTION 10: Stability and reactivity

10.1	Reactivity	
10.1	Reductivity	

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions							
Hazardous reactions	:	Can react with strong oxidizing agents.					
10.4 Conditions to avoid							

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.



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SECTIO	N 11: Toxicological in	for	mation	
11.1 Info	rmation on toxicologica	l ef	fects	
Infor	mation on likely routes of osure		Inhalation Skin contact Ingestion Eye contact	
	te toxicity			
	classified based on availa	ble	information.	
	<u>iponents:</u>			
•	oan-2-ol: te oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 25 Exposure time: 6 Test atmosphere:	h
Acut	e dermal toxicity	:	LD50 (Rabbit): >	5.000 mg/kg
Met	hyl p-Hydroxybenzoate:			
Acut	e oral toxicity	:	LD50 (Rat, male) Method: OECD T	
Gen	tamicin:			
	te oral toxicity	:	LD50 (Rat): 8.000) - 10.000 mg/kg
			LD50 (Mouse): 10).000 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 0,2 Exposure time: 4 Test atmosphere: Remarks: No mo	h
	te toxicity (other routes of inistration)	:	LD50 (Rat): 67 - 9 Application Route	
			LD50 (Rat): 371 - Application Route	
			LDLo (Monkey): 3 Application Route	
beta	imethasone:			
	e oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
			LD50 (Mouse): >	4.500 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): 0,4 m Exposure time: 4	



rsion	Revision Date: 06.07.2024		OS Number: 44802-00013	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
-	corrosion/irritation lassified based on ava	ilabla	information	
	ponents:	liable		
	an-2-ol:			
Speci		:	Rabbit	
Resu		:	No skin irritation	
Meth	yl p-Hydroxybenzoat	e:		
Speci		:	Rabbit	
Resu		:	No skin irritation	
Genta	amicin:			
Speci		:	Rabbit	
Resu	lt	:	Mild skin irritation	I
betar	nethasone:			
Speci Resu		:	Rabbit Mild skin irritation	
Cause	us eye damage/eye i es serious eye irritatio			
	ponents:			
-	an-2-ol:		D 11 %	
Speci Resu		:	Rabbit	reversing within 21 days
Resu		•	initiation to cycs,	
	yl p-Hydroxybenzoat	e:		
Speci Resu		:	Rabbit	
Resu	IL	•	No eye irritation	
	amicin:			
Speci		:	Rabbit	
Resu	IT	:	Mild eye irritation	
	nethasone:			
Speci		:	Rabbit	
Resu	It	:	No eye irritation	
Resp	iratory or skin sensit	isatio	on	
Skin	sensitisation			

Not classified based on available information.

SAFETY DATA SHEET



ersion 0	Revision Date: 06.07.2024	SDS Number: 5344802-00013	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
Resp	iratory sensitisatior	n	
	assified based on av		
Comp	oonents:		
Propa	an-2-ol:		
Test 7		: Buehler Test	
	sure routes	: Skin contact	
Speci Metho		: Guinea pig : OECD Test Gui	idaliaa 106
Resul		: negative	
rtoou		. nogativo	
Methy	yl p-Hydroxybenzoa	ate:	
Test 1	Гуре	: Maurer optimisa	ation test
	sure routes	: Skin contact	
Speci		: Guinea pig	
Metho Resul		: OECD Test Gui : negative	Ideline 406
i tesui		. negative	
Genta	amicin:		
Rema	arks	: No data availab	ble
	nethasone:	. .	
	sure routes	: Dermal	
Speci Resul	es t	: Dermai : Guinea pig : Weak sensitize	r
Speci Resul Germ Not cl	es t cell mutagenicity assified based on av	: Guinea pig : Weak sensitize	r
Speci Resul Germ Not cl	es t cell mutagenicity	: Guinea pig : Weak sensitize	r
Speci Resul Germ Not cl <u>Comp</u>	es t cell mutagenicity assified based on av	: Guinea pig : Weak sensitize	r
Speci Resul Germ Not cl <u>Comp</u> Propa	es t cell mutagenicity assified based on av ponents:	: Guinea pig : Weak sensitize ailable information. : Test Type: Bac	terial reverse mutation assay (AMES)
Speci Resul Germ Not cl <u>Comp</u> Propa	es t cell mutagenicity assified based on av <u>conents:</u> an-2-ol:	: Guinea pig : Weak sensitize ailable information. : Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
Speci Resul Germ Not cl <u>Comp</u> Propa	es t cell mutagenicity assified based on av <u>conents:</u> an-2-ol:	: Guinea pig : Weak sensitize ailable information. : Test Type: Bac Result: negative Test Type: In vi	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test
Speci Resul Germ Not cl <u>Comp</u> Propa Geno	es t ac ell mutagenicity assified based on av <u>ponents:</u> an-2-ol: toxicity in vitro	: Guinea pig : Weak sensitize railable information. : Test Type: Bac Result: negative Test Type: In vi Result: negative	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e
Speci Resul Germ Not cl <u>Comp</u> Propa Geno	es t cell mutagenicity assified based on av <u>conents:</u> an-2-ol:	 Guinea pig Weak sensitize ailable information. Test Type: Bac Result: negative Test Type: In vi Result: negative Test Type: Man 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi
Speci Resul Germ Not cl <u>Comp</u> Propa Geno	es t ac ell mutagenicity assified based on av <u>ponents:</u> an-2-ol: toxicity in vitro	 : Guinea pig : Weak sensitize ailable information. : Test Type: Bac Result: negative : Test Type: In vi Result: negative : Test Type: Man cytogenetic ass 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi say)
Speci Resul Germ Not cl <u>Comp</u> Propa Geno	es t ac ell mutagenicity assified based on av <u>ponents:</u> an-2-ol: toxicity in vitro	 Guinea pig Weak sensitize ailable information. Test Type: Bac Result: negative Test Type: In vi Result: negative Test Type: In vi Result: negative Test Type: Man cytogenetic ass Species: Mouse 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi say)
Speci Resul Germ Not cl <u>Comp</u> Propa Geno	es t ac ell mutagenicity assified based on av <u>ponents:</u> an-2-ol: toxicity in vitro	 Guinea pig Weak sensitize ailable information. Test Type: Bac Result: negative Test Type: In vi Result: negative Test Type: In vi Result: negative Test Type: Man cytogenetic ass Species: Mouse 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi say) e ute: Intraperitoneal injection
Speci Resul Or cl Comp Geno	es t cell mutagenicity assified based on av <u>conents:</u> an-2-ol: toxicity in vitro	 Guinea pig Weak sensitize ailable information. Test Type: Bac Result: negative Test Type: In vi Result: negative Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi say) e ute: Intraperitoneal injection
Speci Resul Or Comp Propa Geno Geno	es t cell mutagenicity assified based on av <u>ponents:</u> an-2-ol: toxicity in vitro toxicity in vitro	 : Guinea pig : Weak sensitize ailable information. : Test Type: Back Result: negative : Test Type: In vice Result: negative : Test Type: In vice : Test Type: Mancytogenetic asses Species: Mouse Application Rou Result: negative 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi say) e ute: Intraperitoneal injection e
Speci Resul Or Comp Propa Geno Geno	es t cell mutagenicity assified based on av <u>conents:</u> an-2-ol: toxicity in vitro	 : Guinea pig : Weak sensitize ailable information. : Test Type: Bac Result: negative : Test Type: In vi Result: negative : Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi say) e ute: Intraperitoneal injection e terial reverse mutation assay (AMES)
Speci Resul Or Comp Propa Geno Geno	es t cell mutagenicity assified based on av <u>ponents:</u> an-2-ol: toxicity in vitro toxicity in vitro	 : Guinea pig : Weak sensitize ailable information. : Test Type: Bac Result: negative : Test Type: In vi Result: negative : Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative ite: : Test Type: Bac Method: OECD 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi say) e ute: Intraperitoneal injection e terial reverse mutation assay (AMES) Test Guideline 471
Speci Resul Or Comp Propa Geno Geno	es t cell mutagenicity assified based on av <u>ponents:</u> an-2-ol: toxicity in vitro toxicity in vitro	 : Guinea pig : Weak sensitize ailable information. : Test Type: Bac Result: negative : Test Type: In vi Result: negative : Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative ite: : Test Type: Bac Method: OECD Result: negative 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi say) e ute: Intraperitoneal injection e terial reverse mutation assay (AMES) Test Guideline 471 e
Speci Resul Or Comp Propa Geno Geno	es t cell mutagenicity assified based on av <u>ponents:</u> an-2-ol: toxicity in vitro toxicity in vitro	 : Guinea pig : Weak sensitize ailable information. : Test Type: Bac Result: negative : Test Type: In vi Result: negative : Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative ite: : Test Type: Bac Method: OECD Result: negative 	terial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e nmalian erythrocyte micronucleus test (in vi say) e ute: Intraperitoneal injection e terial reverse mutation assay (AMES) Test Guideline 471



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			Result: positive	
Geno	toxicity in vivo	:	Species: Rat Application Route	nt dominant lethal test (germ cell) (in vivo) : Ingestion est Guideline 478
Genta	amicin:			
	toxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: equivocal	nosome aberration test in vitro
Geno	toxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) :: Intravenous injection
betar	nethasone:			
Geno	toxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: positive	nosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: equivocal	
Germ sessr	cell mutagenicity- As- nent	:	Weight of evidend cell mutagen.	e does not support classification as a germ
Carci	nogenicity			
	assified based on availa	able	information.	
<u>Com</u>	oonents:			
Propa	an-2-ol:			
	cation Route sure time od	:	Rat inhalation (vapour 104 weeks OECD Test Guide negative	



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	Gentar	micin:			
	Carcino ment	ogenicity - Assess-	:	No data available	
	-	ductive toxicity amage the unborn child.			
	Compo	onents:			
	Propar	1-2-ol:			
	Effects	on fertility	:	Test Type: Two-ge Species: Rat Application Route: Result: negative	eneration reproduction toxicity study
	Effects ment	on foetal develop-	:	Test Type: Embryo Species: Rat Application Route: Result: negative	o-foetal development
	Methyl	p-Hydroxybenzoate:			
	-	on foetal develop-	:	Test Type: Embryo Species: Rabbit Application Route: Result: negative	o-foetal development
	Gentar	nicin:			
	Effects	on fertility	:	Species: Rat Fertility: NOAEL: 2	eneration reproduction toxicity study 20 mg/kg body weight ant adverse effects were reported
	Effects ment	on foetal develop-	:	Species: Rabbit	o-foetal development oxicity: NOAEL: 3,6 mg/kg body weight o-foetal toxicity
				Species: Rat Application Route:	xicity: LOAEL: 75 mg/kg body weight
				Species: Mouse Application Route: Developmental To	o-foetal development : Intraperitoneal xicity: LOAEL: 10 mg/kg body weight tality, No malformations were observed.
				Species: Rat Application Route: Developmental To	o-foetal development Intraperitoneal exicity: LOAEL: 50 mg/kg body weight tality, No malformations were observed.



)	Revision Date: 06.07.2024		OS Number: 44802-00013	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019	
Repro sessn	oductive toxicity - As- nent	:	Positive evidenc human epidemic	e of adverse effects on development from plogical studies.	
betan	nethasone:				
Effect ment	Effects on foetal develop-		Developmental	te: Intramuscular Toxicity: LOAEL: 0,05 mg/kg body weight city, Malformations were observed.	
			Developmental	te: Subcutaneous Toxicity: LOAEL: 0,42 mg/kg body weight ations were observed.	
			Developmental	te: Intramuscular Toxicity: LOAEL: 1 mg/kg body weight ations were observed.	
Repro sessn	oductive toxicity - As- nent	:	Clear evidence of adverse effects on development, based or animal experiments.		
	accutied becad on aver	lable	information.		
	assified based on avai <u> ponents:</u>				
<u>Comp</u> Propa		:		vsiness or dizziness.	
<u>Comp</u> Propa Asses STOT	oonents: an-2-ol: ssment - repeated exposure	:	May cause drow		
Comp Propa Asses STOT Cause	oonents: an-2-ol: ssment	:	May cause drow		
Comp Propa Asses STOT Cause Comp	oonents: an-2-ol: ssment - repeated exposure es damage to organs th	:	May cause drow		
Comp Propa Asses STOT Cause Comp Genta Targe	oonents: an-2-ol: ssment - repeated exposure es damage to organs th conents:	:	May cause drow gh prolonged or re Kidney, inner ea	peated exposure.	
Comp Propa Asses STOT Cause Comp Genta Targe Asses	oonents: an-2-ol: ssment - repeated exposure es damage to organs th conents: amicin: et Organs	:	May cause drow oh prolonged or re Kidney, inner ea Causes damage	peated exposure.	
Comp Propa Asses STOT Cause Comp Genta Targe Asses	oonents: an-2-ol: ssment - repeated exposure es damage to organs th conents: amicin: et Organs ssment	:	May cause drow th prolonged or re Kidney, inner ea Causes damage exposure. Pituitary gland, l	epeated exposure. ur e to organs through prolonged or repeated	
Comp Propa Asses STOT Cause Comp Genta Targe Asses betan Targe	oonents: an-2-ol: ssment - repeated exposure es damage to organs th conents: amicin: et Organs ssment	:	May cause drow of prolonged or re Kidney, inner ea Causes damage exposure. Pituitary gland, l Adrenal gland	epeated exposure. ur e to organs through prolonged or repeated	
Comp Propa Asses STOT Cause Comp Genta Targe Asses betan Targe	 bonents: an-2-ol: asment - repeated exposure es damage to organs the bonents: amicin: bt Organs asment 	:	May cause drow h prolonged or re Kidney, inner ea Causes damage exposure. Pituitary gland, f Adrenal gland Causes damage	epeated exposure. tr to organs through prolonged or repeated mmune system, muscle, thymus gland, Bloo	
Comp Propa Asses STOT Cause Comp Genta Targe Asses betan Targe Asses	<pre>bonents: an-2-ol: ssment - repeated exposure es damage to organs th bonents: amicin: et Organs ssment et Organs ssment ssment</pre>	:	May cause drow h prolonged or re Kidney, inner ea Causes damage exposure. Pituitary gland, f Adrenal gland Causes damage	epeated exposure. tr to organs through prolonged or repeated mmune system, muscle, thymus gland, Bloo	
Comp Propa Asses STOT Cause Comp Genta Targe Asses betan Targe Asses Repe	<pre>bonents: an-2-ol: ssment - repeated exposure es damage to organs th bonents: amicin: ot Organs ssment atet dose toxicity</pre>	:	May cause drow h prolonged or re Kidney, inner ea Causes damage exposure. Pituitary gland, f Adrenal gland Causes damage	epeated exposure. Ir e to organs through prolonged or repeated mmune system, muscle, thymus gland, Bloo	



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NOAE		: 12,5 mg/l		
	cation Route sure time	: inhalation (va : 104 Weeks	pour)	
Methy	yl p-Hydroxybenzoa	te:		
Speci	es	: Rat		
NOAE		: 250 mg/kg		
LOAE		: 1.000 mg/kg		
	cation Route	: Ingestion		
Expos	sure time od	: 28 Days : OECD Test G	Buideline 407	
Genta	amicin:			
Speci	es	: Dog		
LÖAE		: 3 mg/kg		
	ation Route	: Intramuscular		
	sure time	: 12 Months		
Targe Symp	t Organs toms	: Kidney : Vomiting, Sal	ivation	
Speci	es	: Monkey		
LÖAE		: 50 mg/kg		
Applic	ation Route	: Subcutaneou	S	
	sure time	: 3 Weeks		
Targe	t Organs	: Kidney, inner	ear	
Speci		: Monkey		
LOAE		: 6 mg/kg		
	ation Route	: Intramuscular		
	sure time t Organs	: 3 Weeks	<i>r</i> , inner ear, Liver	
rarye	a Organs	. Blood, Ridney		
Speci		: Rat		
		: 5 mg/kg		
LOAE	cation Route	: 10 mg/kg : Intramuscular		
	sure time	: 52 Weeks		
	t Organs	: Kidney, Blood	1	
Speci		: Rat		
NOAE		: 12,5 mg/kg		
LOAE		: 50 mg/kg		
	cation Route sure time	: Intramuscular : 13 Weeks		
	t Organs	: Kidney		
betan	nethasone:			
Speci		: Rabbit		
LOAE		: 0.05 %		
	cation Route	: Skin contact		
Expos	sure time	: 10 - 30 d		
Targe	t Organs	: Pituitary glane	d, Immune system, muscle	



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L A E	Exposu			Rat 0.05 % Skin contact 8 Weeks thymus gland	
L A E	Exposu			Mouse 0.1 % Skin contact 8 Weeks thymus gland	
L A E	Exposu			Dog 0,05 mg/kg Oral 28 d Blood, thymus gla	nd, Adrenal gland
Ν	Not clas	tion toxicity ssified based on availa			
	-	ence with human exp onents:	osu	le	
	Gentan				
-	ngestic		:	Target Organs: Ki Target Organs: in Symptoms: Dizzin deafness	
b	oetame	ethasone:			
	nhalati Skin co	•	:	Target Organs: Ac Symptoms: Redne	Irenal gland ess, pruritis, Irritation
SECT	TION 1	12: Ecological infor	ma	tion	
12.1 T	Foxicit	у			
<u>c</u>	Compo	onents:			
P	Propan	-2-ol:			
Т	oxicity	to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 9.640 mg/l h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10.000 mg/l h
Т	oxicity	to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1.050 mg/l h
	-	p-Hydroxybenzoate: to fish	:	LC50 (Oryzias lati Exposure time: 96	pes (Japanese medaka)): 59,5 mg/l h



ersion 0	Revision Date: 06.07.2024	-	0S Number: 44802-00013	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019		
			Method: OECD T	est Guideline 203		
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: ISO 634			
Toxicity to algae/aquatic plants		:	: ErC50 (Pseudokirchneriella subcapitata (green algae)) mg/l Exposure time: 72 h Method: ISO 8692			
			EC10 (Pseudokiro Exposure time: 72 Method: ISO 8692			
Toxici icity)	ity to fish (Chronic tox-	:	NOEC: 0,024 mg/ Exposure time: 70 Species: Danio re	D d		
	ity to daphnia and other ic invertebrates (Chron- city)	:	NOEC: 0,2 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211			
Genta	amicin:					
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): 86 mg/l 8 h est Guideline 202		
			LC50 (Americamy Exposure time: 96 Method: US-EPA			
Toxici plants	ity to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Method: OECD T			
			NOEC (Pseudoki µg/l Exposure time: 72 Method: OECD T			
			EC50 (Anabaena Exposure time: 72 Method: OECD T			
			NOEC (Anabaena Exposure time: 72 Method: OECD T			
M-Fac icity)	ctor (Acute aquatic tox-	:	100			
Toxici	ity to microorganisms	:	EC50 : 288,7 mg/	1		



Vers 6.0	sion	Revision Date: 06.07.2024		DS Number: 44802-00013	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
				Exposure time: 3 Test Type: Respi Method: OECD T	
	M-Fact toxicity	or (Chronic aquatic)	:	1	
	betame	ethasone:			
		/ to daphnia and other invertebrates	:	EC50 (Americam Exposure time: 90	
	Toxicity plants	/ to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	chneriella subcapitata (green algae)): > 34 2 h rest Guideline 201 icity at the limit of solubility
				mg/l Exposure time: 72 Method: OECD T	rchneriella subcapitata (green algae)): 34 2 h rest Guideline 201 ricity at the limit of solubility
	Toxicity icity)	/ to fish (Chronic tox-	:		
					19 d latipes (Japanese medaka) est Guideline 229
		/ to daphnia and other invertebrates (Chron- ity)	:		1 d a magna (Water flea) est Guideline 211
	M-Fact toxicity	or (Chronic aquatic)	:	1.000	
12.2	Persis	tence and degradabil	ity		
	Compo	onents:			
	Propar Biodeg	1-2-ol: radability	:	Result: rapidly de	gradable
	BOD/C	OD	:	BOD: 1,19 (BOD COD: 2,23 BOD/COD: 53 %	
	-	p-Hydroxybenzoate: radability	:	Result: Readily bi	



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			Exposure time: Method: OECD	28 d Test Guideline 301B		
	amicin:					
BIODE	gradability	:	 Result: rapidly degradable Biodegradation: 100 % Exposure time: 28 d Method: OECD Test Guideline 314 			
12.3 Bioa	ccumulative potential					
Com	ponents:					
Partit	an-2-ol: ion coefficient: n- ol/water	:	log Pow: 0,05			
Partit	yl p-Hydroxybenzoate : ion coefficient: n- ol/water	:	log Pow: 1,98			
Partit	amicin: ion coefficient: n- ıol/water	:	log Pow: < -2			
Partit	nethasone: ion coefficient: n- ol/water	:	log Pow: 2,11			
	i lity in soil ata available					
12.5 Resu	llts of PBT and vPvB a	sse	ssment			
Prod	uct:					
Asse	ssment	:	to be either pers	mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of		
12.6 Othe	r adverse effects					
Prod	uct:					
	crine disrupting poten-	:	ered to have en REACH Article \$	mixture does not contain components consid- docrine disrupting properties according to 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at r higher.		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: Dispose of in accordance with local regulations.



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Contaminated packaging		:	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. 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	I 14: Transport infor	mat	tion		
14.1 UN n	umber				
ADN		:	UN 3082		
ADR		:	UN 3082		
RID		:	UN 3082		
IMDG	i	:	UN 3082		
ΙΑΤΑ		:	UN 3082		
14.2 UN p	roper shipping name				
ADN		:	ENVIRONMENT N.O.S. (betamethasone)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
ADR		:	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII N.O.S. (betamethasone)		
RID		:	ENVIRONMENT N.O.S. (betamethasone)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
IMDG	i	:	ENVIRONMENT N.O.S. (betamethasone)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
ΙΑΤΑ		:	Environmentally ((betamethasone)	hazardous substance, liquid, n.o.s.	
14.3 Trans	sport hazard class(es)				
			Class	Subsidiary risks	
ADN		:	9		
ADR		:	9		
RID		:	9		
IMDG	i	:	9		
ΙΑΤΑ		:	9		
14.4 Pack	ing group				
ADN					
	ng group ification Code	:	III M6		



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Haza Labe	rd Identification Number Is	:	90 9	
Class Haza Labe	ing group sification Code ırd Identification Number	:	III M6 90 9 (-)	
Class	ing group sification Code Ird Identification Number Is	: :	III M6 90 9	
Labe	ing group	:	III 9 F-A, S-F	
Pack aircra Pack	ing instruction (LQ) ing group	:	964 Y964 III Miscellaneous	
Pack ger a Pack	(Passenger) ing instruction (passen- ircraft) ing instruction (LQ) ing group Is	:	964 Y964 III Miscellaneous	
14.5 Envi	ronmental hazards			
ADN Envir	onmentally hazardous	:	yes	
ADR Envir	onmentally hazardous	:	yes	
RID Envir	onmentally hazardous	:	yes	
IMDO Marir	G ne pollutant	:	yes	
	(Passenger) conmentally hazardous	:	yes	
	(Cargo) conmentally hazardous	:	yes	
	cial precautions for use	r		

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.



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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

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.					
Highly flammable liquid and vapour.					
Causes serious eye irritation.					
Fatal if inhaled.					
May cause drowsiness or dizziness.					
May damage the unborn child.					
Causes damage to organs through prolonged or repeated exposure.					
Causes damage to organs through prolonged or repeated exposure if swallowed.					
Very toxic to aquatic life.					
Very toxic to aquatic life with long lasting effects.					
Toxic to aquatic life with long lasting effects.					
Full text of other abbreviations					
Acute toxicity					
Short-term (acute) aquatic hazard					
Long-term (chronic) aquatic hazard					
Eye irritation					
Flammable liquids					
Reproductive toxicity					
Specific target organ toxicity - repeated exposure					
Specific target organ toxicity - single exposure					
South Africa. The Regulations for Hazardous Chemical Agents, Biological Exposure Indices					
South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits					
Occupational Exposure Limit Restricted limit - 8- hour expo-					



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sure or equivalent (12 hour shifts)

ZA OEL / OEL- RL STEL/C

: Occupational Exposure Limit Restricted limit - Short term occupational exposure limits / ceiling limits

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

Further information

Aquatic Chronic 1

Sources of key data used to compile the Safety Data Sheet		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
Classification of the mixtur	e:	Classif	ication procedure:
Eye Irrit. 2	H31	9 Calculat	ion method
Repr. 1B	H36	0D Calculat	ion method
STOT RE 1	H37	2 Calculat	ion method

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

Calculation method

H410

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



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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.

ZA / EN