

Version 5.0	Revision Date: 06.07.2024		S Number: 14800-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019		
Section 1	: Identification					
Prod	uct identifier	:	Betamethason	e / Gentamicin Formulation		
Reco	mmended use of the cl	hem	ical and restric	tions on use		
	mmended use ictions on use	:	Veterinary proc Not applicable	duct		
Manu	afacturer or supplier's o	deta	ils			
Comp	bany	:	MSD			
Addre	ess	: 50 Tuas West Drive Singapore - Singapore 638408				
Telep	phone	:	+1-908-740-4000			
Emer	gency telephone numbe	r :	65 6697 2111 (24/7/365)			
E-ma	il address	:	EHSDATASTEWARD@msd.com			
Section 2	: Hazard identification					
Class	sification of the substa	nce	or mixture			
Serio tation	, ,	:	: Category 2			
Repro	oductive toxicity	:	Category 1B			
	ific target organ toxicity - ated exposure	:	Category 1 (Pit gland, Blood, A	tuitary gland, Immune system, muscle, thymu Adrenal gland)		
Long	Long-term (chronic) aquatic : Category 1					

#### GHS Label elements, including precautionary statements

hazard

GHS Laber elements, including precautionary statements							
Hazard pictograms	:						
Signal word	:	Danger					
Hazard statements	:	H319 Causes serious eye irritation. H360D May damage the unborn child. H372 Causes damage to organs (Pituitary gland, Immune sys- tem, muscle, thymus gland, Blood, Adrenal gland) through pro- longed or repeated exposure.					



ersion D	Revision Date: 06.07.2024	SDS Number: 5344800-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
		H410 Very toxi	ic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P273 Avoid rel P280 Wear pro	pecial instructions before use. andle until all safety precautions have been read d. reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. ease to the environment. otective gloves/ protective clothing/ eye protec- ection/ hearing protection.
		for several min easy to do. Co P308 + P313 I attention.	F exposed or concerned: Get medical advice/ f eye irritation persists: Get medical advice/ at-
		<b>Storage:</b> P405 Store loc	ked up.
		Disposal:	of contents/ container to an approved waste

#### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Propan-2-ol	67-63-0	>= 10 -< 20
Methyl p-Hydroxybenzoate	99-76-3	>= 1 -< 2.5
Gentamicin	1403-66-3	>= 0.025 -< 0.1
betamethasone	378-44-9	>= 0.025 -< 0.1

#### Section 4: First-aid measures

#### Description of necessary first-aid measures

General advice

: In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical



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lf inha	aled	:	advice. If inhaled, remov				
In case of skin contact		:	of water. Remove contam Get medical atte Wash clothing b	ct, immediately flush skin with soap and plent ninated clothing and shoes. ention.			
In case of eye contact			In case of conta for at least 15 m	ct, immediately flush eyes with plenty of wate inutes. move contact lens, if worn.			
If swallowed			If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.				
Most	important symptoms a	Ind	effects, both ac	ute and delayed			
Risks Protection of first-aiders		:	Causes serious eye irritation. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. First Aid responders should pay attention to self-protection and use the recommended personal protective equipmer when the potential for exposure exists (see section 8).				
Indica	ation of any immediate	me	edical attention a	and special treatment needed			
Treati	ment	:	Treat symptoma	tically and supportively.			
ection 5:	Fire-fighting measure	S					
Exting	uishing media						
Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical				
Unsui media	table extinguishing	:	None known.				
Speci	ial hazards arising fron	n th	e substance or	mixture			
-	fic hazards during fire-	:		nbustion products may be a hazard to health.			
	· · · ·	:	Carbon oxides				

#### Special protective actions for fire-fighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do



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		so. Evacuate area	à.
Section 6	: Accidental release I	measures	
	precautions, protectional precautions	: Use personal Follow safe ha	emergency procedures protective equipment. andling advice (see section 7) and personal pro- ment recommendations (see section 8).
	ental precautions onmental precautions	Prevent furthe Prevent sprea barriers). Retain and dis	to the environment. r leakage or spillage if safe to do so. ding over a wide area (e.g. by containment or oi spose of contaminated wash water. es should be advised if significant spillages tained.
	and materials for con ods for cleaning up	: Soak up with i For large spills ment to keep r be pumped, st Clean up rema bent. Local or natior posal of this m employed in th mine which rep Sections 13 ar	ing up nert absorbent material. s, provide dyking or other appropriate contain- material from spreading. If dyked material can core recovered material in appropriate container. aining materials from spill with suitable absor- nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
Section 7	: Handling and storag	ge	
Preca	autions for safe hand	ling	
Tech	nical measures		ng measures under EXPOSURE PERSONAL PROTECTION section.
Local	/Total ventilation		ntilation is unavailable, use with local exhaust
Advic	e on safe handling	: Do not get on Do not breathe Do not swallow Do not get in e Wash skin tho Handle in acco practice, base sessment Keep containe Do not eat, dri	

Take care to prevent spills, waste and minimize release to the



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Hygi	ene measures	flushing syst place. When using Wash contar The effective engineering appropriate o industrial hys	o chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. ninated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the histrative controls.
Con	ditions for safe storage	e, including any i	ncompatibilities
Cond	ditions for safe storage	Store locked Keep tightly	•
Mate	erials to avoid		with the following product types:

#### Section 8: Exposure controls/personal protection

#### **Control parameters**

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Propan-2-ol	67-63-0	PEL (long	400 ppm	SG OEL
		term)	983 mg/m3	
		PEL (short	500 ppm	SG OEL
		term)	1,230 mg/m3	
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB	Internal
			2)	
	Further information: OTO			
betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
	Further information	ation: Skin		
		Wipe limit	10 µg/100 cm <sup>2</sup>	Internal

#### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work-	40 mg/l	ACGIH BEI



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I	1		1	week				
	Appropriate engineering control measures       All engineering controls should be implemented by facili design and operated in accordance with GMP principles protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technolor If handled in a laboratory, use a properly designed biosa cabinet, fume hood, or other containment device if the p tial exists for aerosolization. If this potential does not exis handle over lined trays or benchtops.							
	-	res	-	al protective equipment (PPE)				
Eye/fac Skin pro	e protection otection	:	If the work environ mists or aerosols, Wear a faceshield potential for direct aerosols. Work uniform or la Additional body g task being perform posable suits) to a	arments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces.				
Filte	atory protection r type rotection	<ul> <li>Use appropriate degowning techniques to remove potentially contaminated clothing.</li> <li>If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.</li> <li>Combined particulates and organic vapour type</li> </ul>						
Mate	erial	:	Chemical-resistar	nt gloves				
Rem	narks	:	Consider double gloving.					
ection 9: F	Physical and chemica	l pr	operties					
Appear	ance	:	liquid					
Colour		:	No data available	e				
Odour		:	No data available	e				
Odour 7	Threshold	:	No data available	e				
рН		:	No data available	e				
Melting	point/freezing point	:	No data available	e				
Initial be	oiling point and boiling	:	No data available	e				

range



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	Evapor	ation rate		No data available	
	-				
		ability (solid, gas)	•	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	)
	Relative	e density	:	No data available	
	Density	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	mixture is not classified as oxidizing.
	Molecu	lar weight	•	No data available	)
	Particle Particle	characteristics size	:	Not applicable	

#### Section 10: Stability and reactivity

:	Not classified as a reactivity hazard.
:	Stable under normal conditions.
:	Can react with strong oxidizing agents.
:	None known.
:	Oxidizing agents
	:



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Haza prod	ardous decomposition ucts	:	No hazardous de	ecomposition products are known.
Section 1	1: Toxicological inform	atio	on	
Infor expo	mation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	<b>e toxicity</b> classified based on availa	ble	information.	
<u>Com</u>	ponents:			
Prop	oan-2-ol:			
Acut	e 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
	<b>nyl p-Hydroxybenzoate:</b> e oral toxicity	:	LD50 (Rat, male) Method: OECD T	: 2,100 mg/kg est Guideline 401
	tamicin:			
Acut	e 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
	e toxicity (other routes of inistration)	:	LD50 (Rat): 67 - 9 Application Route	
			LD50 (Rat): 371 - Application Route	
			LDLo (Monkey): 3 Application Route	
heta	methasone:			
	e oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
			LD50 (Mouse): >	4.500 ma/ka



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Acu	ute inhalation toxicity	:	LC50 (Rat): 0.4 m Exposure time: 4	
	n corrosion/irritation t classified based on availa	ble	information.	
<u>Co</u>	mponents:			
Pro	opan-2-ol:			
	ecies sult	:	Rabbit No skin irritation	
Ме	thyl p-Hydroxybenzoate:			
Spe	ecies sult	:	Rabbit No skin irritation	
Ge	ntamicin:			
	ecies	:		
Re	sult	:	Mild skin irritation	
bet	amethasone:			
	ecies sult	:	Rabbit Mild skin irritation	
	rious eye damage/eye irri	itati	ion	
	uses serious eye irritation.			
	mponents:			
	opan-2-ol: ecies	:	Rabbit	
	sult	:		reversing within 21 days
Ме	thyl p-Hydroxybenzoate:			
	ecies	:	Rabbit	
Re	sult	:	No eye irritation	
Ge	ntamicin:			
	ecies	:	Rabbit	
Re	sult	:	Mild eye irritation	
bet	amethasone:			
	ecies	:	Rabbit	
Re	sult	:	No eye irritation	



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Resp	iratory or skin sens	tisation	
-	sensitisation lassified based on av	ailable information.	
-	iratory sensitisation		
Com	ponents:		
Test	sure routes ies od	: Buehler Test : Skin contact : Guinea pig : OECD Test C : negative	Guideline 406
Test	sure routes ies od	te: : Maurer optim : Skin contact : Guinea pig : OECD Test C : negative	
<b>Gent</b> a Rema	<b>amicin:</b> arks	: No data avail	able
betar	nethasone:		
Expo Speci Resu		: Dermal : Guinea pig : Weak sensiti:	zer
	<b>cell mutagenicity</b> lassified based on av	ailable information.	
<u>Com</u>	ponents:		
Propa	an-2-ol:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
Geno	toxicity in vivo	cytogenetic a Species: Mou	use oute: Intraperitoneal injection



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	<b>yl p-Hydroxybenzoa</b> t toxicity in vitro	:		terial reverse mutation assay (AMES) Test Guideline 471 e		
				omosome aberration test in vitro Test Guideline 473		
Geno	toxicity in vivo		Test Type: Rodent dominant lethal test (germ cell) (in vivo Species: Rat Application Route: Ingestion Method: OECD Test Guideline 478 Result: negative			
Genta	amicin:					
Geno	toxicity in vitro		Test Type: In vi Result: negative	tro mammalian cell gene mutation test e		
			Test Type: Chro Result: equivoc	omosome aberration test in vitro al		
Geno	toxicity in vivo		Test Type: Mammalian erythrocyte micronucleus test (in v cytogenetic assay) Species: Mouse Application Route: Intravenous injection Result: negative			
betar	nethasone:					
	toxicity in vitro		Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e		
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test e		
			Test Type: Chro Result: positive	omosome aberration test in vitro		
Geno	toxicity in vivo		Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Oral Result: equivocal			
	a cell mutagenicity - ssment		Weight of evide cell mutagen.	nce does not support classification as a germ		

#### Carcinogenicity

Not classified based on available information.



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Comp	oonents:			
Prop	an-2-ol:			
Speci			Rat	
	cation Route	:	inhalation (vapou	r)
	sure time	:	104 weeks	
Metho Resul		:	OECD Test Guid negative	eline 451
Resul	L	•	negative	
Genta	amicin:			
	nogenicity - Assess-	:	No data available	9
ment				
-	oductive toxicity lamage the unborn chi	ild		
-	oonents:			
Propa	an-2-ol:			
-	s on fertility	:	Test Type: Two-c	generation reproduction toxicity study
	,		Species: Rat	
			Application Route	e: Ingestion
			Result: negative	
	s on foetal develop-	:		yo-foetal development
ment			Species: Rat Application Route	- Indestion
			Result: negative	
Math	d n Uvdrovskonzost	<b>.</b> .		
-	<b>yl p-Hydroxybenzoat</b> s on foetal develop-	e:	Test Type: Embry	yo-foetal development
ment		•	Species: Rabbit	
			Application Route	e: Ingestion
			Result: negative	
Genta	amicin:			
	s on fertility	:	Test Type: Two-g	generation reproduction toxicity study
	-		Species: Rat	
				20 mg/kg body weight
			ivesuit. INO SIGNIII	cant adverse effects were reported
	s on foetal develop-	:		yo-foetal development
ment			Species: Rabbit	oxicity: NOAEL: 3.6 mg/kg body weig
			Result: No embry	
			Test Type: Embr	yo-foetal development
			Species: Rat	
			Application Route	
				oxicity: LOAEL: 75 mg/kg body weigh
			Result: Embryo-f	oetal toxicity



rsion	Revision Date: 06.07.2024		OS Number: 44800-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
			Test Type: Emb Species: Mouse	ryo-foetal development
			Application Rou Developmental	te: Intraperitoneal Toxicity: LOAEL: 10 mg/kg body weight ortality, No malformations were observed.
			Species: Rat Application Rou Developmental	ryo-foetal development te: Intraperitoneal Toxicity: LOAEL: 50 mg/kg body weight ortality, No malformations were observed.
Repro sessm	oductive toxicity - As- nent	:	Positive evidence human epidemic	e of adverse effects on development from plogical studies.
betan	nethasone:			
Effect ment	s 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 sessm	oductive toxicity - As- nent	:	Clear evidence of animal experiment	of adverse effects on development, based c ents.
	<b>- single exposure</b> assified based on avai	lable	information.	
Comp	oonents:			
•	an-2-ol:			
Asses	ssment	:	May cause drow	vsiness or dizziness.
STOT	- repeated exposure			
	es damage to organs (l gland) through prolong			e system, muscle, thymus gland, Blood, Ad- ire.
<u>Comp</u>	oonents:			
Genta	amicin:			
Targe	t Organs	:	Kidney, inner ea	r



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Asses	ssment	: Causes damage exposure.	to organs through prolonged or repeated
betan	nethasone:		
	t Organs	: Pituitary gland, I Adrenal gland	mmune system, muscle, thymus gland, Bloc
Asses	ssment		to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u> r	oonents:		
Propa	an-2-ol:		
		: Rat : 12.5 mg/l : inhalation (vapor : 104 Weeks	ır)
Methy	yl p-Hydroxybenzoa	e:	
	EL EL cation Route sure time	: Rat : 250 mg/kg : 1,000 mg/kg : Ingestion : 28 Days : OECD Test Guid	leline 407
Genta	amicin:		
Expos	L cation Route sure time tt Organs	: Dog : 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Saliva	tion
Speci LOAE		: Monkey : 50 mg/kg	
Applic Expos	cation Route sure time st Organs	: Subcutaneous : 3 Weeks	<b>.</b>
U	C C	: Kidney, inner ea	1
Speci LOAE		: Monkey : 6 mg/kg	
	cation Route	: Intramuscular	
	sure time et Organs	: 3 Weeks : Blood, Kidney, ir	iner ear, Liver
Speci		: Rat	
NOAE		: 5 mg/kg	
LUAE	L	: 10 mg/kg	



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Ар	olication Route	: Intramuscular	
	oosure time	: 52 Weeks	
Tar	get Organs	: Kidney, Blood	
	ecies	: Rat	
	AEL AEL	: 12.5 mg/kg : 50 mg/kg	
	plication Route	: Intramuscular	
	posure time	: 13 Weeks	
lar	get Organs	: Kidney	
bet	amethasone:		
	ecies	: Rabbit	
	AEL plication Route	: 0.05 % : Skin contact	
	posure time	: 10 - 30 d	
Tar	get Organs	: Pituitary gland,	Immune system, muscle
	ecies	: Rat	
-	AEL	: 0.05 %	
	olication Route	: Skin contact : 8 Weeks	
	get Organs	: thymus gland	
	ecies	: Mouse	
	AEL blication Route	: 0.1 % : Skin contact	
	posure time	: 8 Weeks	
	get Organs	: thymus gland	
Spe	ecies	: Dog	
	AEL	: 0.05 mg/kg	
	olication Route	: Oral : 28 d	
	get Organs		gland, Adrenal gland
٨٥	piration toxicity		
	classified based on ava	ailable information.	
Ex	perience with human e	xposure	
Co	mponents:		
Ge	ntamicin:		
Ing	estion	: Target Organs:	
		Target Organs: Symptoms: Diz	inner ear ziness, Vertigo, hearing loss, tinnitus, fetal
		deafness	
bet	amethasone:		
	alation	: Target Organs:	
Ski	n contact	: Symptoms: Rec	Iness, pruritis, Irritation
		15/01	



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Toxicity		
Components:		
Propan-2-ol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16 h
Methyl p-Hydroxybenzoate:		
Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 59.5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 11.2 mg/l Exposure time: 48 h Method: ISO 6341
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 91 mg/l Exposure time: 72 h Method: ISO 8692
		EC10 (Pseudokirchneriella subcapitata (green algae)): 31 mg Exposure time: 72 h Method: ISO 8692
Toxicity to fish (Chronic tox- icity)	:	NOEC (Danio rerio (zebra fish)): 0.024 mg/l Exposure time: 70 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.2 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Gentamicin:		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 86 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		LC50 (Americamysis): 30 mg/l Exposure time: 96 h



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<b>T</b>				
l oxi plan	city to algae/aquatic ts	:	EC50 (Pseudokiro Exposure time: 72 Method: OECD T	
			NOEC (Pseudokin µg/l Exposure time: 72 Method: OECD T	
			EC50 (Anabaena Exposure time: 72 Method: OECD T	
			NOEC (Anabaena Exposure time: 72 Method: OECD T	
	actor (Acute aquatic tox-	:	100	
	actor (Chronic aquatic	:	1	
toxic Toxi	ity) city to microorganisms	:	EC50: 288.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD T	h ration inhibition
beta	methasone:			
Toxi	city to daphnia and other atic invertebrates	:	EC50 (Americam) Exposure time: 96	
Toxi plan	city to algae/aquatic ts	:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 72 Method: OECD T	
Toxi icity)	city to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD T	
			NOEC (Oryzias la Exposure time: 2 <sup>2</sup> Method: OECD T	
	city to daphnia and other atic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 2 <sup>2</sup>	nagna (Water flea)): 8 mg/l I d



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ic to	ic toxicity)		Method: OECD T	est Guideline 211
M-Fa	M-Factor (Chronic aquatic		1,000	
	toxicity) Persistence and degradabili			
Com	ponents:	-		
-	<b>an-2-ol:</b> egradability	:	Result: rapidly de	gradable
BOD	/COD	:	BOD: 1,19 (BOD COD: 2,23 BOD/COD: 53 %	5)
	<b>ayl p-Hydroxybenzoate:</b> egradability	:	Result: Readily bi Biodegradation: 4 Exposure time: 28 Method: OECD T	89 %
	t <b>amicin:</b> egradability	:	Biodegradation: Exposure time: 28	100 %
Bioa	ccumulative potential			
Com	ponents:			
Parti	<b>an-2-ol:</b> tion coefficient: n- nol/water	:	log Pow: 0.05	
Parti	yl p-Hydroxybenzoate: tion coefficient: n- nol/water	:	log Pow: 1.98	
Parti	t <b>amicin:</b> tion coefficient: n- nol/water	:	log Pow: < -2	
Parti	<b>methasone:</b> tion coefficient: n- nol/water	:	log Pow: 2.11	
	<b>ility in soil</b> ata available			



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No da	r <b>adverse effects</b> ata available				
ection 1	3: Disposal considerat	ions			
Dispo	osal methods				
Waste	e from residues		pose of waste into se		
Conta	aminated packaging	dling site for recycling or disp		be taken to an approved waste han-	
ection 14	4: Transport information	on			
Interr	national Regulations				
UNR	ſDG				
	umber	: UN 3082			
UN pr	oper shipping name	: ENVIRO N.O.S. (betame		DOUS SUBSTANCE, LIQUID,	
	port hazard class(es)	: 9	,		
	ng group		  9		
Label		-			
	onmental hazards	: yes			
	-				
	UN/ID No. : UN 3082 UN proper shipping name : Environmentally hazardous subs (betamethasone)		hotopoo liquid n o c		
UN PI			(betamethasone)		
Trans	port hazard class(es)	: 9			
Packi	ng group	: 111			
Label		: Miscella	eous		
Packi aircra	ng instruction (cargo	: 964			
Packi	ng instruction (passen- rcraft)	: 964	: 964		
Enviro	onmentally hazardous	: yes			
IMDG	-Code				
	umber	: UN 3082			
Prope	er shipping name	N.O.S.		DOUS SUBSTANCE, LIQUID,	
Trans	port hazard class(es)	(betame : 9	asune)		
	ng group	: 111			
Label	S	: 9			
EmS		-	: F-A, S-F : yes		
Marin	e pollutant	: yes			

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.



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#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### Section 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazardous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

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

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

#### Section 16: Other information

Revision Date	:	06.07.2024
Further information		
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/

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

Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH ACGIH BEI SG OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.			
ACGIH / TWA ACGIH / STEL SG OEL / PEL (long term)	::	8-hour, time-weighted average Short-term exposure limit Permissible Exposure Level (PEL) Long Term			



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SG OEL / PEL (short term) : Permissible Exposure Level (PEL) Short Term

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

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

SG / EN