Revision Date:

Version



Date of last issue: 06.04.2024

Betamethasone / Gentamicin Formulation

SDS Number:

)	06.07.2024		S Number: 14799-00012	Date of first issue: 09.12.2019
ction 1	: Identification			
Produ	uct name	:	Betamethason	e / Gentamicin Formulation
Manu	facturer or supplier's d	letai	ils	
Comp	bany	:	MSD	
Addre	ess	:	33 Whakatiki S Upper Hutt - Ne	treet - Private Bag 908 ew Zealand
Telep	hone	:	0800 800 543	
Emer	gency telephone number	· :	0800 764 766 (CHEMCALL)	(0800 POISON) 0800 243 622 (0800
E-mai	il address	:	EHSDATASTE	WARD@msd.com
	mmended use ictions on use	:	Veterinary proc Not applicable	JUCT
Restri	ictions on use	:		JUCT
Restriction 2:	ictions on use : Hazard identification Classification us eye damage/eye irri-	:	Not applicable	зист
Restriction 2: GHS Serior tation	ictions on use : Hazard identification Classification us eye damage/eye irri-	:	Not applicable	auct
Restriction 2: GHS Serior tation Repro	ictions on use Hazard identification Classification us eye damage/eye irri-	: :	Not applicable Category 2 Category 1	tuitary gland, Immune system, muscle, thyn
Restriction 2: GHS Serior tation Repro Speci repea	ictions on use Hazard identification Classification us eye damage/eye irri- oductive toxicity fic target organ toxicity -	::	Not applicable Category 2 Category 1 Category 1 (Pit	tuitary gland, Immune system, muscle, thyn
Restriction 2: GHS Serior tation Repro Speci repea Aspira Haza	ictions on use Hazard identification Classification us eye damage/eye irri- oductive toxicity fic target organ toxicity - ited exposure	:: : : : :	Not applicable Category 2 Category 1 Category 1 (Pit gland, Blood, A	tuitary gland, Immune system, muscle, thyn
Restriction 2: GHS Serior tation Repro Speci repea Aspira Hazar enviro	: Hazard identification Classification us eye damage/eye irri- oductive toxicity fic target organ toxicity - ited exposure ation hazard rdous to the aquatic	::	Not applicable Category 2 Category 1 Category 1 (Pit gland, Blood, A Category 1	tuitary gland, Immune system, muscle, thyn
Restriction 2: GHS Serior tation Repro Speci repea Aspira Hazar enviro GHS	E Hazard identification Classification us eye damage/eye irri- oductive toxicity fic target organ toxicity - ation hazard rdous to the aquatic onment - chronic hazard		Not applicable Category 2 Category 1 Category 1 (Pit gland, Blood, A Category 1	tuitary gland, Immune system, muscle, thyn
Restriction 2: GHS Serior tation Repro Speci repea Aspira Hazar enviro GHS Hazar	ictions on use Hazard identification Classification us eye damage/eye irri- oductive toxicity ific target organ toxicity - ited exposure ation hazard rdous to the aquatic onment - chronic hazard Iabel elements		Not applicable Category 2 Category 1 Category 1 (Pit gland, Blood, A Category 1	tuitary gland, Immune system, muscle, thyn



ersion 0	Revision Date: 06.07.2024	SDS Number: 5344799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
		H372 Causes tem, muscle, the longed or repe	amage the unborn child. damage to organs (Pituitary gland, Immune sys hymus gland, Blood, Adrenal gland) through pro ated exposure. ic to aquatic life with long lasting effects.
Preca	utionary statements	P260 Do not b P264 Wash sk P270 Do not e P273 Avoid rel	pecial instructions before use. reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. lease to the environment. otective gloves/ protective clothing/ eye protec- ection.
		CENTER/ doc P305 + P351 + for several mir easy to do. Co P308 + P313 I attention. P331 Do NOT	 P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. F exposed or concerned: Get medical advice/ induce vomiting. f eye irritation persists: Get medical advice/ at-
		Storage: P405 Store loc	sked up.
		Disposal:	of contents/ container to an approved waste

None known.

Section 3: Composition/information on ingredients

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propylene glycol	57-55-6	>= 20 -< 30
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

Revision Date:

Version



Date of last issue: 06.04.2024

Betamethasone / Gentamicin Formulation

SDS Number:

Version 7.0	Revision Date: 06.07.2024	SDS Number: 5344799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
Gene	ral advice	vice immediate	accident or if you feel unwell, seek medical ad- ely. ms persist or in all cases of doubt seek medical
lf inha	bled	advice.	ove to fresh air.
		Get medical a	
In cas	e of skin contact	of water. Remove conta Get medical a Wash clothing	
In cas	e of eye contact	: In case of con for at least 15	tact, immediately flush eyes with plenty of water minutes. emove contact lens, if worn.
lf swa	llowed	: If swallowed, I Get medical a	DO NOT induce vomiting.
	important symptoms ffects, both acute and ed	: May be fatal if Causes seriou May damage t Causes dama	swallowed and enters airways. Is eye irritation. The unborn child. ge to organs through prolonged or repeated
	ction of first-aiders	and use the re when the pote	onders should pay attention to self-protection, ecommended personal protective equipment ntial for exposure exists (see section 8). natically and supportively.
	Fire-fighting measure		
Suitat	ble extinguishing media	: Water spray Alcohol-resista Carbon dioxid Dry chemical	
Unsui media	table extinguishing	: None known.	
Speci fightin	fic hazards during fire-	: Exposure to c	ombustion products may be a hazard to health.
	dous combustion prod-	: Carbon oxides	5
Speci ods	fic extinguishing meth-	cumstances a Use water spr	ning measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to d
for fire	al protective equipment efighters nem Code	: In the event of	i. fire, wear self-contained breathing apparatus. protective equipment.

Section 6: Accidental release measures



Version 7.0	Revision Date: 06.07.2024		OS Number: 44799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019			
tive e	onal precautions, protec- quipment and emer-	:	Follow safe har	rotective equipment. Indling advice (see section 7) and personal pro-			
gency procedures Environmental precautions			tective equipment recommendations (see section 8). 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 obarriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.				
Methods and materials for containment and cleaning up		:	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate conta ment to keep material from spreading. If dyked material c be pumped, store recovered material in appropriate conta Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and d posal of this material, as well as those materials and item employed in the cleanup of releases. You will need to det mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regar certain local or national requirements. 				
ection 7	: Handling and storage	!					
Tech	nical measures	:		g measures under EXPOSURE ERSONAL PROTECTION section.			
Local	/Total ventilation	:	If sufficient vent ventilation.	tilation is unavailable, use with local exhaust			
Advic	e on safe handling	:	Do not swallow Do not get in ey Wash skin thoro Handle in accor practice, based sessment Keep container Do not eat, drin	mist or vapours. oughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure as-			

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.
	Wash contaminated clothing before re-use.
	The effective operation of a facility should include review of
	engineering controls, proper personal protective equipment,
	appropriate degowning and decontamination procedures,



Version 7.0	Revision Date: 06.07.2024	SDS Number: 5344799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
			ne monitoring, medical surveillance and the
Cond	itions for safe storage	use of administ : Keep in properl Store locked up Keep tightly clo	y labelled containers.
Mater	ials to avoid		ance with the particular national regulations. th the following product types: g agents

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	WES-TWA (particulate)	10 mg/m3	NZ OEL
		WES-TWA (Vapour and particulates)	150 ppm 474 mg/m3	NZ OEL
Propan-2-ol	67-63-0	WES-TWA	400 ppm 983 mg/m3	NZ OEL
		WES-STEL	500 ppm 1,230 mg/m3	NZ OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal
	Further inform	Further information: OTO		
betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
	Further inform	nation: Skin	· · ·	
		Wipe limit	10 µg/100 cm ²	Internal

Components with workplace control parameters

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- week	40 mg/l	ACGIH BEI

 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. Use closed processing systems or containment technologies. If handled in a laboratory, use a properly designed biosafety



/ersion .0	Revision Date: 06.07.2024	SDS Number: 5344799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019			
		tial exists for ae	bood, or other containment device if the pote prosolization. If this potential does not exist, ad trays or benchtops.			
Perso	onal protective equip	ment				
Respi	iratory protection	: If adequate local exhaust ventilation is not available sure assessment demonstrates exposures outside ommended guidelines, use respiratory protection.				
Filter type Hand protection		: Combined particulates and organic vapour type				
Ma	aterial	: Chemical-resist	tant gloves			
Re	emarks	: Consider doubl	e alovina.			
Eye p	protection	: Wear safety gla If the work envi mists or aeroso Wear a faceshi	asses with side shields or goggles. ronment or activity involves dusty conditions ils, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or			
Skin a	and body protection	Additional body task being perfo posable suits) t	r laboratory coat. garments should be used based upon the prmed (e.g., sleevelets, apron, gauntlets, dis o avoid exposed skin surfaces. e degowning techniques to remove potentia dothing.			

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available



Vers 7.0	ion	Revision Date: 06.07.2024		S Number: 4799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partitio 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 of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available)
	Particle Particle	e characteristics e size	:	Not applicable	

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure ro	outes
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: Inhalation



rsion)	Revision Date: 06.07.2024		S Number: 44799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
			la section	
			Ingestion Eye contact	
	e toxicity			
_	assified based on availa	ble	information.	
	oonents:			
	ylene glycol: oral toxicity		LD50 (Rat): 22,	000 mg/kg
		•	. ,	
Acute	inhalation toxicity	•	LC50 (Rat): > 4 Exposure time:	
			Test atmospher	
Acute	dermal toxicity	:	LD50 (Rabbit): Assessment: Th toxicity	> 2,000 mg/kg ne substance or mixture has no acute derm
Propa	an-2-ol:			
	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2 Exposure time: Test atmospher	6 h
Acute	dermal toxicity	:	LD50 (Rabbit):	> 5,000 mg/kg
Methy	yl p-Hydroxybenzoate:			
Acute	oral toxicity	:	LD50 (Rat, male Method: OECD	e): 2,100 mg/kg Test Guideline 401
	amicin:			
Acute	oral toxicity	:	LD50 (Rat): 8,0	00 - 10,000 mg/kg
			LD50 (Mouse):	10,000 mg/kg
Acute	inhalation toxicity	:	Exposure time: Test atmospher	4 h
	toxicity (other routes of histration)	:	LD50 (Rat): 67 Application Rou	
			LD50 (Rat): 371 Application Rou	1 - 384 mg/kg ite: Intramuscular
			LDLo (Monkey) Application Rou	



Version 7.0	Revision Date: 06.07.2024		DS Number: 44799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
beta	methasone:			
Acute	e oral toxicity	:	LD50 (Rat): > 5	i,000 mg/kg
			LD50 (Mouse):	> 4,500 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 0.4 Exposure time:	
-	corrosion/irritation	ailable	information.	
<u>Com</u>	ponents:			
	ylene glycol:			
Spec Meth		:	Rabbit	idalina 404
Resu			OECD Test Gu No skin irritatior	
	oan-2-ol:			
Spec Resu		:	Rabbit No skin irritatio	n
Meth	yl p-Hydroxybenzoat	e:		
Spec	cies	:	Rabbit	
Resu	ılt	:	No skin irritatio	n
	tamicin:			
Spec Resu		:	Rabbit Mild skin irritatio	on
beta Spec	methasone:		Rabbit	
Resu		:	Mild skin irritatio	on
	ous eye damage/eye i		ion	
	ses serious eye irritatio	n.		
	ponents:			
Prop Spec	ylene glycol:		Rabbit	
Resu		:	No eye irritatior	
Meth	od	:	OECD Test Gu	ideline 405
	oan-2-ol:			
Spec Resu		:	Rabbit Irritation to ever	s, reversing within 21 days
I VESU		•		, reversing wann 21 days



Version 7.0	Revision Date: 06.07.2024	SDS N 534479	umber: 99-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
Meth	yl p-Hydroxybenzoat	e:		
Spec Resu		: Ral : No	bbit eye irritation	
Gent	amicin:			
Spec Resu			obit d eye irritation	
betar	methasone:			
Spec Resu		: Ral : No	obit eye irritation	
Resp	piratory or skin sensi	tisation		
-	sensitisation			
Not c	lassified based on ava	ilable infor	mation.	
-	iratory sensitisation lassified based on ava	ilable infor	mation.	
Com	ponents:			
Prop	ylene glycol:			
Test	Туре		ximisation Tes	st
Expo Spec	sure routes ies		n contact inea pig	
Resu			gative	
Prop	an-2-ol:			
Test	Type		ehler Test	
Expo Spec	sure routes ies		n contact inea pig	
Meth	od	: OE	CD Test Guid	eline 406
Resu	It	: neg	gative	
Meth	yl p-Hydroxybenzoat	e:		
Test			urer optimisati	on test
Expo Spec	sure routes		n contact	
Meth			inea pig CD Test Guid	eline 406
Resu	lt		gative	
Gent	amicin:			
Rema	arks	: No	data available	
betar	methasone:			
	sure routes		rmal	
Spec	Ies	: Gu	inea pig	
			10 / 23	



ersion)	Revision Date: 06.07.2024	SDS Number: 5344799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
Resu	lt	: Weak sensiti	zer
Chro	nic toxicity		
	n cell mutagenicity lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
Prop	ylene glycol:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
			hromosome aberration test in vitro CD Test Guideline 473 tive
Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Intraperitoneal injection
Propa	an-2-ol:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
Geno	toxicity in vivo	: Test Type: M cytogenetic a Species: Mo	
			Route: Intraperitoneal injection
Meth	yl p-Hydroxybenzoa	te:	
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
			hromosome aberration test in vitro CD Test Guideline 473 ve
Geno	toxicity in vivo	Species: Rat Application F	Route: Ingestion CD Test Guideline 478



ersion .0	Revision Date: 06.07.2024	SDS Number:Date of last issue: 06.04.20245344799-00012Date of first issue: 09.12.2019	
Genta	amicin:		
Genot	toxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: negative	
		Test Type: Chromosome aberration test in vitro Result: equivocal	
Genot	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Intravenous injection Result: negative 	vivc
	nethasone: toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
		Test Type: In vitro mammalian cell gene mutation test Result: negative	
		Test Type: Chromosome aberration test in vitro Result: positive	
Genot	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Oral Result: equivocal 	vivc
	cell mutagenicity - sment	: Weight of evidence does not support classification as a g cell mutagen.	jerm
Carci	nogenicity assified based on ava	lable information	
	oonents:		
Propy	/lene glycol:		
Speci		: Rat	
Expos Resul	cation Route sure time t	: Ingestion : 2 Years : negative	
Propa	an-2-ol:		
Speci		: Rat	
Expos	ation Route	: inhalation (vapour) : 104 weeks	
Metho Resul		: OECD Test Guideline 451 : negative	



ersion .0	Revision Date: 06.07.2024	-	OS Number: 44799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
	amicin:			
Carcir ment	nogenicity - Assess-	:	No data available	
-	oductive toxicity lamage the unborn chi	ld.		
<u>Comp</u>	oonents:			
Propy	/lene glycol:			
Effect	s on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-foetal development : Ingestion
Propa	an-2-ol:			
Effect	s on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development : Ingestion
Methy	yl p-Hydroxybenzoate	e:		
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Rabbit Application Route Result: negative	vo-foetal development : Ingestion
Genta	amicin:			
Effect	s on fertility	:	Species: Rat Fertility: NOAEL:	eneration reproduction toxicity study 20 mg/kg body weight cant adverse effects were reported
Effect ment	s on foetal develop-	:	Species: Rabbit	vo-foetal development oxicity: NOAEL: 3.6 mg/kg body weig o-foetal toxicity
			Test Type: Embry Species: Rat Application Route	vo-foetal development e: Intraperitoneal
			13 / 23	



rsion	Revision Date: 06.07.2024	SDS Number: 5344799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
			ntal Toxicity: LOAEL: 75 mg/kg body weight pryo-foetal toxicity
		Species: Mo Application Development	Embryo-foetal development ouse Route: Intraperitoneal ntal Toxicity: LOAEL: 10 mg/kg body weight al mortality, No malformations were observed.
		Species: Ra Application Development	Embryo-foetal development at Route: Intraperitoneal ntal Toxicity: LOAEL: 50 mg/kg body weight al mortality, No malformations were observed.
Repro sessn	oductive toxicity - As- nent		dence of adverse effects on development fron emiological studies.
betan	nethasone:		
Effect ment	s on foetal develop-	Developme	abbit Route: Intramuscular ntal Toxicity: LOAEL: 0.05 mg/kg body weight ptoxicity, Malformations were observed.
		Developme	at Route: Subcutaneous ntal Toxicity: LOAEL: 0.42 mg/kg body weight formations were observed.
		Developme	ouse Route: Intramuscular ntal Toxicity: LOAEL: 1 mg/kg body weight formations were observed.
Repro sessn	oductive toxicity - As- nent	: Clear evider animal expe	nce of adverse effects on development, based eriments.

Not classified based on available information.

Components:

Propan-2-ol:

Assessment

: May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland) through prolonged or repeated exposure.



ersion D	Revision Date: 06.07.2024	SDS Number: 5344799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
	oonents:		
Genta	amicin:		
	t Organs	: Kidney, inner e	
Asses	sment	: Causes damaç exposure.	ge to organs through prolonged or repeated
betan	nethasone:		
Targe	t Organs	: Pituitary gland	, Immune system, muscle, thymus gland, Bloc
		Adrenal gland	
Asses	sment	: Causes damaç exposure.	ge to organs through prolonged or repeated
Repe	ated dose toxicity		
Comp	oonents:		
Propy	/lene glycol:		
Speci	es	: Rat, male	
NOAE		: >= 1,700 mg/k	g
	ation Route	: Ingestion	
TExpos	sure time	: 2 yr	
Propa	an-2-ol:		
Speci		: Rat	
NOAE	:L ation Route	: 12.5 mg/l : inhalation (vap	
	sure time	: 104 Weeks	our)
Methy	/l p-Hydroxybenzoa	te:	
Speci		: Rat	
NOAE		: 250 mg/kg	
LOAE	L ation Route	: 1,000 mg/kg : Ingestion	
	sure time	: 28 Days	
Metho		: OECD Test Gu	uideline 407
	amicin:		
Speci		: Dog	
LOAE		: 3 mg/kg	
Expos	ation Route	: Intramuscular : 12 Months	
	t Organs	: Kidney	
Symp		: Vomiting, Saliv	vation
Speci		: Monkey	
LÒAE	L	: 50 mg/kg	
	ation Route	: Subcutaneous	
	sure time	: 3 Weeks	



Version 7.0	Revision Date: 06.07.2024	SDS Number: 5344799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
Specie LOAE Applic Expos		: Kidney, inner : Monkey : 6 mg/kg : Intramuscular : 3 Weeks : Blood, Kidney	
Expos	EL	: Rat : 5 mg/kg : 10 mg/kg : Intramuscular : 52 Weeks : Kidney, Blood	
Expos	EL	: Rat : 12.5 mg/kg : 50 mg/kg : Intramuscular : 13 Weeks : Kidney	
Specie LOAE Applic Expos Targe LOAE Applic Expos	L ation Route sure time t Organs es	: Rabbit : 0.05 % : Skin contact : 10 - 30 d : Pituitary gland : Rat : 0.05 % : Skin contact : 8 Weeks : thymus gland	d, Immune system, muscle
Expos		: Mouse : 0.1 % : Skin contact : 8 Weeks : thymus gland	
Expos		: Dog : 0.05 mg/kg : Oral : 28 d : Blood, thymus	s gland, Adrenal gland

Aspiration toxicity

May be fatal if swallowed and enters airways.



VersionRevision Date:SDS Number:Date of last issue: 06.04.20247.006.07.20245344799-00012Date of first issue: 09.12.2019					
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Components:

Propan-2-ol:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Experience with human exposure

Components:		
Gentamicin:		
Ingestion	:	Target Organs: Kidney Target Organs: inner ear Symptoms: Dizziness, Vertigo, hearing loss, tinnitus, fetal deafness
betamethasone:		
Inhalation Skin contact	:	Target Organs: Adrenal gland Symptoms: Redness, pruritis, Irritation

Section 12: Ecological information

Ecotoxicity

Components:

Propylene glycol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l Exposure time: 7 d
Toxicity to microorganisms	:	NOEC (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h
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



ersion 0	Revision Date: 06.07.2024		9S Number: 44799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
II			Exposure time:	16 h
II Moth	yl p-Hydroxybenzoate:			
	ity to fish	:	Exposure time: 9	atipes (Japanese medaka)): 59.5 mg/l 96 h Test Guideline 203
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time: 4 Method: ISO 634	
Toxici plants	ity to algae/aquatic	:	ErC50 (Pseudok mg/l Exposure time: 7 Method: ISO 86	
			EC10 (Pseudoki Exposure time: 7 Method: ISO 86	
Toxici icity)	ity to fish (Chronic tox-	:	NOEC (Danio re Exposure time: 7	rio (zebra fish)): 0.024 mg/l 70 d
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 0.2 mg/l 21 d Test Guideline 211
II Genta	amicin:			
Toxici	ity to daphnia and other ic invertebrates	:	Exposure time: 4	magna (Water flea)): 86 mg/l 48 h Test Guideline 202
			LC50 (American Exposure time: 9 Method: US-EP	
Toxici plants	ity to algae/aquatic	:	Exposure time: 7	rchneriella subcapitata (green algae)): 10 μg 72 h Test Guideline 201
			µg/l Exposure time: 7	kirchneriella subcapitata (green algae)): 1.5 72 h Test Guideline 201
			EC50 (Anabaen Exposure time: 7	a flos-aquae (cyanobacterium)): 4.7 µg/l
			NOEC (Anabaeı Exposure time: 7	na flos-aquae (cyanobacterium)): 1.6 µg/l 72 h



Version 7.0	Revision Date: 06.07.2024	-	9S Number: 44799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
П			Method: OECD To	est Guideline 201
M-Fac icity)	ctor (Acute aquatic tox-	:	100	
	ctor (Chronic aquatic	:	1	
	ty to microorganisms	:	EC50: 288.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD To	ation inhibition
betam	nethasone:			
	ty to daphnia and other ic invertebrates	:	EC50 (Americamy Exposure time: 96	
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	
			mg/l Exposure time: 72 Method: OECD To	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
			NOEC (Oryzias la Exposure time: 21 Method: OECD Te	
	ic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
M-Fac toxicit	ctor (Chronic aquatic y)	:	1,000	
Persis	stence and degradabili	ity		
<u>Comp</u>	oonents:			
	/lene glycol: gradability	:	Result: Readily bi Biodegradation: S Exposure time: 28 Method: OECD To	98.3 %



ersion .0	Revision Date: 06.07.2024		0S Number: 44799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
Propa	an-2-ol:			
Biode	gradability	:	Result: rapidly de	gradable
BOD/	COD	:	BOD: 1,19 (BOD5 COD: 2,23 BOD/COD: 53 %	5)
Methy	yl p-Hydroxybenzoate:			
-	gradability	:	Result: Readily bio Biodegradation: 8 Exposure time: 28 Method: OECD Te	39 %
Genta	amicin:			
Biode	gradability	:	Result: rapidly deg Biodegradation: 1 Exposure time: 28 Method: OECD Te	100 % 3 d
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Propy	/lene glycol:			
	on coefficient: n- ol/water	:	log Pow: -1.07 Method: Regulatio	on (EC) No. 440/2008, Annex, A.8
Propa	an-2-ol:			
Partiti octan	on coefficient: n- ol/water	:	log Pow: 0.05	
Methy	yl p-Hydroxybenzoate:			
	on coefficient: n- ol/water	:	log Pow: 1.98	
Partiti	amicin: on coefficient: n- ol/water	:	log Pow: < -2	
betan	nethasone:			
	on coefficient: n- ol/water	:	log Pow: 2.11	
	i ty in soil ita available			
Other	adverse effects			
No da	ta available			



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
7.0	06.07.2024	5344799-00012	Date of first issue: 09.12.2019

Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
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.
		ii not otherwise specified. Dispose of as unused product.

Section 14: Transport information

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

NZS 5433



Version 7.0	Revision Date: 06.07.2024		OS Number: 44799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
UN nu	Imber	:	UN 3082	
Prope	r shipping name	:	ENVIRONMENT/ N.O.S. (betamethasone)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class		:	9	
Packir	ng group	:	III	
Labels	S .	:	9	
Hazch	em Code	:	3Z	
Marine	e pollutant	:	no	
Snoci	al procautions for u	cor		

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/legislation specific for the substance or mixture

HSNO Approval Number

not allocated

Tolerable Exposure Limits (TEL) Not applicable Environmental Exposure Limits (EEL) Not applicable

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



Version 7.0	Revision Date: 06.07.2024	SDS Number: 5344799-00012	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
ACGII ACGII NZ OE	H BEI	: ACGIH - Biologio	reshold Limit Values (TLV) cal Exposure Indices (BEI) /orkplace Exposure Standards for Atmospher-
ACGII NZ OE	H / TWA H / STEL EL / WES-TWA EL / WES-STEL		
Land o Carcin Stands x% re ENCS x% gru tem; G - Inten Equipt centra cal Su Maritir ganisa centra Lethal n.o.s. Conce Loadir	of Brazil; ASTM - Ame nogen, Mutagen or Re ardisation; DSL - Dome sponse; ELx - Loadin - Existing and New C owth rate response; EF GLP - Good Laboratory mational Air Transpor ment of Ships carrying tion; ICAO - Internation ubstances in China; IM ne Organization; ISHL ation for Standardizatio tion to 50 % of a test Dose); MARPOL - Ir - Not Otherwise Speci entration; NO(A)EL - N ng Rate; NOM - Officia	rican Society for the Teproductive Toxicant; estic Substances List (g rate associated with chemical Substances (RG - Emergency Resp Practice; IARC - Intern t Association; IBC - J Dangerous Chemica nal Civil Aviation Orga IDG - International Ma - Industrial Safety an on; KECI - Korea Exis population; LD50 - Lei nternational Conventio fied; Nch - Chilean No o Observed (Adverse) I Mexican Norm; NTP	Is; ANTT - National Agency for Transport by Testing of Materials; bw - Body weight; CMR - DIN - Standard of the German Institute for (Canada); ECx - Concentration associated with n x% response; EmS - Emergency Schedule; (Japan); ErCx - Concentration associated with onse Guide; GHS - Globally Harmonized Sys- national Agency for Research on Cancer; IATA International Code for the Construction and Is in Bulk; IC50 - Half maximal inhibitory con- nization; IECSC - Inventory of Existing Chemi- aritime Dangerous Goods; IMO - International d Health Law (Japan); ISO - International Or- ting Chemicals Inventory; LC50 - Lethal Con- thal Dose to 50% of a test population (Median on for the Prevention of Pollution from Ships; prm; NO(A)EC - No Observed (Adverse) Effect) Effect Level; NOELR - No Observable Effect - National Toxicology Program; NZIoC - New ation for Economic Co-operation and Develop-

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.

lative; WHMIS - Workplace Hazardous Materials Information System

ment; 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 Bioaccumu-

NZ / EN