

Vers 4.0	ion	Revision Date: 06.07.2024		S Number: 4770-00011	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
SEC	TION 1: Product	IDENTIFICATION	:	Betamethasone /	Gentamicin Formulation
	Manufa	cturer or supplier's d	letai	ls	
	Compa		:		Pty Limited (trading as MSD Animal Health)
	Address	8	:	91-105 Harpin St Bendigo 3550, V	
	Telepho	one	:	1 800 033 461	
	Emerge	ency telephone number	· :	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail a	address	:	EHSDATASTEW	ARD@msd.com
	Recommended use of the chemical and restrictions on use				
		mended use ions on use	:	Veterinary produc Not applicable	ct

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage/eye irri- tation	:	Category 2A
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland)
GHS label elements		
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.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use.



P202 Do not handle until all safety precautions have berand understood. P260 Do not breathe mist or vapours. P260 Do not breathe mist or vapours. P260 Do not breathe mist or vapours. P260 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product P280 Wear protective gloves/ protective clothing/ eye protective gloves/ protective clothing/ eye protective gloves/ protective clothing/ eye protective gloves/ protective clothing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with for several minutes. Remove contact lenses, if present a easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advict tention. P308 + P313 IF eye irritation persists: Get medical advict tention. P337 + P313 IF eye irritation persists: Get medical advict tention. Storage: P405 Store locked up. Disposal P501 Dispose of contents/ container to an approved wa disposal plant. Other hazards which do not result in classification None known. Storage Substance / Mixture Mixture Components Dispose of contents/ container to an approved wa disposal plant. Dispose of Contents/ Concentration (%of Propylene glycol F7-55-6 >= 10 - < 30 Propan-2-ol 67-63-0 >= 10 - < 30 Propan	/ersion I.0	Revision Date: 06.07.2024	SDS Number: 5344770-00011		sue: 06.04.2024 sue: 09.12.2019
and understood. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product P280 Wear protective gloves/ protective clothing/ eye protection. Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with for several minutes. Remove contact lenses, if present a easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advicates to a contract lenses. P307 + P313 IF exposed or concerned: Get medical advicates to a content of the several minutes. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved ward disposal plant. Other hazards which do not result in classification None known. ECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Substance / Mixture : Mixture Components $\overline{Propylene glycol} = 57-55-6 \Rightarrow = 10 - 30$ Propan-2-0 67-63-0 $\Rightarrow = 10 - 30$					
P305 + P351 + P338 IF IN EYES: Rinse cautiously with for several minutes. Remove contact lenses, if present a easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical adviatention. P337 + P313 If eye irritation persists: Get medical adviatention. P308 + P313 IF exposed or concerned: Get medical adviatention. P337 + P313 If eye irritation persists: Get medical adviatention. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved wa disposal plant. Other hazards which do not result in classification None known. ECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Substance / Mixture : Mixture Components Chemical name CAS-No. Concentration (% of Propylene glycol \$7:55-6 >= 10 -< 30			and understo P260 Do not P264 Wash s P270 Do not P280 Wear p	od. breathe mist or vap skin thoroughly afte eat, drink or smoke rotective gloves/ pr	pours. Ir handling. Ie when using this product.
P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved wa disposal plant. Other hazards which do not result in classification None known. ECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Substance / Mixture Components Chemical name CAS-No. Concentration (% view) Propylene glycol 57-55-6 Propan-2-ol 67-63-0 Gentamicin 1403-66-3 Value 378-44-9			P305 + P351 for several m easy to do. C P308 + P313 attention. P337 + P313	inutes. Remove co continue rinsing. IF exposed or con	ntact lenses, if present and cerned: Get medical advice/
Disposal: P501 Dispose of contents/ container to an approved wardisposal plant. Other hazards which do not result in classification None known. ECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Substance / Mixture : Mixture Components Chemical name CAS-No. Concentration (% visual properties) Propylene glycol 57-55-6 >= 10 -< 30			-		
P501 Dispose of contents/ container to an approved wa disposal plant. Other hazards which do not result in classification None known. ECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Substance / Mixture Components Chemical name CAS-No. Propylene glycol 57-55-6 Propan-2-ol 67-63-0 Gentamicin 1403-66-3 Value 378-44-9				ocked up.	
None known. ECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Substance / Mixture Mixture Components Chemical name CAS-No. Propylene glycol 57-55-6 >= 10 -< 30			P501 Dispos		ainer to an approved waste
Chemical nameCAS-No.Concentration (%)Propylene glycol $57-55-6$ >= 10 -< 30	None k	nown.	FORMATION ON IN		
Chemical nameCAS-No.Concentration (%)Propylene glycol $57-55-6$ >= 10 -< 30	Compo	onents			
Propylene glycol 57-55-6 >= 10 -< 30 Propan-2-ol 67-63-0 >= 10 -< 20	-			CAS-No.	Concentration (% w/w)
Propan-2-ol 67-63-0 >= 10 -< 20 Gentamicin 1403-66-3 < 0.3					· · · · ·
betamethasone 378-44-9 >= 0.01 -< 0.3					
				1403-66-3	
	betame	ethasone		378-44-9	>= 0.01 -< 0.3
			IDES		
LOTION 4. LINGT AID MEAGURES	LCTION 4	. FIRST AID MEASU	IKES		

vice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
: If inhaled, remove to fresh air.
Get medical attention.
: 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.



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l	In case of eye contact		:	In case of contact for at least 15 min	ove contact lens, if worn.
ľ	lf swallov	wed	:	If swallowed, DO Get medical atten	NOT induce vomiting.
a	Most important symptoms and effects, both acute and delayed		:	Causes serious e May damage the	ye irritation.
F	Protection of first-aiders		:	First Aid responde and use the recor	ers should pay attention to self-protection, nmended personal protective equipment Il for exposure exists (see section 8).
١	Notes to	physician	:		cally and supportively.
SECT	TION 5.	FIREFIGHTING MEA	SU	RES	
S	Suitable extinguishing media		:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuitab media	ble extinguishing	:	None known.	
S		hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
	Hazardo ucts	us combustion prod-	:	Carbon oxides	
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
f	Special p for firefig Hazchen		:		e, wear self-contained breathing apparatus. tective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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



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		ls and materials for ment and cleaning up	For large spills, p ment to keep mat be pumped, store Clean up remaini bent. Local or national posal of this mate employed in the o mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can e recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.

SECTION 7. HANDLING AND STORAGE

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. Do not eat, drink or smoke when using this product. 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, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	TWA (partic- ulate)	10 mg/m3	AU OEL
		TWA (Total (vapour and particles))	150 ppm 474 mg/m3	AU OEL
Propan-2-ol	67-63-0	STEL	500 ppm 1,230 mg/m3	AU OEL
		TWA	400 ppm 983 mg/m3	AU OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal
Further information: OTO				
betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
Further information: Skin				
		Wipe limit	10 µg/100 cm ²	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- 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 cabinet, fume hood, or other containment device if the potential exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.

Personal protective equipment

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo-
		sure assessment demonstrates exposures outside the rec-
		ommended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapour type
Hand protection		



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R Eye	Aaterial Remarks protection and body protection	: ::	If the work environ mists or aerosols, Wear a faceshield	gloving. ses with side shields or goggles. ment or activity involves dusty conditions, wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or
		-	Additional body g task being perform posable suits) to a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially
SECTION	N 9. PHYSICAL AND CHI	EMI		S
Арр	earance	:	liquid	
Colo	bur	:	No data available	9
Odo	ur	:	No data available	
Odo	ur Threshold	:	No data available	9
pН		:	No data available	9
Melt	ing point/freezing point	:	No data available	9
Initia rang	al boiling point and boiling le	:	No data available	9
Flas	h point	:	No data available	9
Eva	poration rate	:	No data available	9
Flam	nmability (solid, gas)	:	Not applicable	
Flam	nmability (liquids)	:	No data available	9

Upper explosion limit / Upper No data available : flammability limit Lower explosion limit / Lower : No data available flammability limit Vapour pressure No data available : Relative vapour density No data available 2 Relative density : No data available



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Densit	Ŋ	:	No data availab	le
	lity(ies) iter solubility	:	No data availab	le
	on coefficient: n-	:	Not applicable	
	ol/water gnition temperature	:	No data availab	le
Decon	nposition temperature	:	No data availab	le
Viscos Vis	sity cosity, kinematic	:	No data availab	le
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance	or mixture is not classified as oxidizing.
Molec	ular weight	:	No data availab	le
Particl Particl	e characteristics e size	:	Not applicable	
ECTION '	10. STABILITY AND R	EAC	ΤΙVΙΤΥ	

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

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	: Inhalation Skin contact Ingestion Eye contact
	Eye contact

Acute toxicity

Not classified based on available information.

Components:

Propylene glycol:

Acute oral toxicity : LD50 (Rat): 22,000 mg/kg



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Acute	inhalation toxicity	:	LC50 (Rat): > 44. Exposure time: 4 Test atmosphere:	h	
Acute dermal toxicity		:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity		
Propa	an-2-ol:				
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): > 25 Exposure time: 6 Test atmosphere:	h	
Acute	dermal toxicity	:	LD50 (Rabbit): >	5,000 mg/kg	
Genta	amicin:				
Acute	oral toxicity	:	LD50 (Rat): 8,000 - 10,000 mg/kg		
			LD50 (Mouse): 10),000 mg/kg	
Acute	Acute inhalation toxicity		LC50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose.		
	toxicity (other routes of istration)	:	: LD50 (Rat): 67 - 96 mg/kg Application Route: Intravenous		
			LD50 (Rat): 371 - Application Route		
			LDLo (Monkey): 3 Application Route		
betan	nethasone:				
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg	
			LD50 (Mouse): >	4,500 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): 0.4 m Exposure time: 4		
	corrosion/irritation	bla	information		
	assified based on availa ponents:	eiu	iniormation.		

Propylene glycol:



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Speci Metho Resu	bc	: Rabbit : OECD Test (: No skin irrita	Guideline 404 tion			
Propa	an-2-ol:					
Speci Resu	ies	: Rabbit : No skin irrita	Rabbit No skin irritation			
Gent a Speci Resu		: Rabbit : Mild skin irrit	ation			
••		. Wild Skir int				
betar Speci Resu		: Rabbit : Mild skin irrit	ation			
	o us eye damage/eye es serious eye irritatio					
	ponents:					
Prop Speci Resu Metho	lt	: Rabbit : No eye irritat : OECD Test (ion Guideline 405			
Speci	an-2-ol: ies	: Rabbit				
Resu	It	: Irritation to e	yes, reversing within 21 days			
Gent a Speci Resu		: Rabbit : Mild eye irrita	ation			
betar	nethasone:					
Speci Resu		: Rabbit : No eye irritat	ion			
Resp	iratory or skin sensi	isation				
	sensitisation	11 I I I I I I				
	lassified based on ava	ilable information.				

Respiratory sensitisation

Not classified based on available information.



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<u>Com</u>	oonents:		
Prop	ylene glycol:		
Test		: Maximisation Test	
Expo	sure routes	: Skin contact	
Speci		: Guinea pig	
Resu	It	: negative	
Propa	an-2-ol:		
Test	Гуре	: Buehler Test	
	sure routes	: Skin contact	
Speci Metho		: Guinea pig : OECD Test Guideline 406	
Resu		: negative	
		. Togaire	
	amicin:		
Rema	arks	: No data available	
betar	nethasone:		
Expos	sure routes	: Dermal	
Speci		: Guinea pig	
Resu	lt	: Weak sensitizer	
Chro	nic toxicity		
	-		
	cell mutagenicity		
INOT C	' <i>C</i> '	/allable information.	
-	lassified based on a		
	oonents:		
Prop	<u>oonents:</u> ylene glycol:		
Prop	oonents:	: Test Type: Bacterial reverse mutation assay (AMES)	
Prop	<u>oonents:</u> ylene glycol:	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
Prop	<u>oonents:</u> ylene glycol:	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro	
Prop	<u>oonents:</u> ylene glycol:	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 	
Prop Geno	oonents: ylene glycol: toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro	
Prop Geno	<u>oonents:</u> ylene glycol:	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Test Type: Mammalian erythrocyte micronucleus test (in 	n vivo
Prop Geno	oonents: ylene glycol: toxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) 	n vivo
Prop Geno	oonents: ylene glycol: toxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse 	n vivc
Prop Geno	oonents: ylene glycol: toxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) 	n vivc
Prop	oonents: ylene glycol: toxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection 	n vivo
Prop Geno Geno Prop	oonents: ylene glycol: toxicity in vitro toxicity in vivo	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative 	n vivo
Prop Geno Geno Prop	oonents: ylene glycol: toxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative Test Type: Bacterial reverse mutation assay (AMES) 	n vivo
Prop Geno Geno Prop	oonents: ylene glycol: toxicity in vitro toxicity in vivo	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative 	n vivc



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II		Result: nega	itive
Geno	toxicity in vivo	cytogenetic Species: Mo	use Route: Intraperitoneal injection
Genta	amicin:		
Geno	toxicity in vitro	: Test Type: In Result: nega	n vitro mammalian cell gene mutation test ttive
		Test Type: C Result: equiv	Chromosome aberration test in vitro
Geno	toxicity in vivo	cytogenetic Species: Mo	use Route: Intravenous injection
betan	nethasone:		
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: lı Result: nega	n vitro mammalian cell gene mutation test ative
		Test Type: C Result: posit	Chromosome aberration test in vitro ive
Geno	toxicity in vivo	: Test Type: N cytogenetic Species: Mo Application F Result: equiv	use Route: Oral
	cell mutagenicity - ssment	: Weight of ev cell mutager	idence does not support classification as a ger n.
Carci	nogenicity		
Not cl	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative



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Spec Appli Expo Meth	cation Route sure time od	: Rat : inhalation (vap : 104 weeks : OECD Test Gu	
Resu	lt	: negative	
	amicin: inogenicity - Assess-	: No data availa	ble
-	oductive toxicity damage the unborn chil	d.	
Com	ponents:		
	ylene glycol: ts on fertility	: Test Type: Tw Species: Mous Application Ro Result: negativ	ute: Ingestion
Effec ment	ts on foetal develop-	-	bryo-foetal development e ute: Ingestion
II Prop	an-2-ol:		
	ts on fertility	: Test Type: Tw Species: Rat Application Ro Result: negativ	
Effec ment	ts on foetal develop-	: Test Type: Em Species: Rat Application Ro Result: negativ	
II Gent	amicin:		
	ts on fertility	Species: Rat Fertility: NOAE	o-generation reproduction toxicity study L: 20 mg/kg body weight nificant adverse effects were reported
Effec ment	ts on foetal develop-	Species: Rabb Developmenta	bryo-foetal development it I Toxicity: NOAEL: 3.6 mg/kg body weight pryo-foetal toxicity
		Test Type: Em Species: Rat	bryo-foetal development
		12/2	1



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		Dev	velopmental	ite: Intraperitoneal Toxicity: LOAEL: 75 mg/kg body weight -foetal toxicity
		Spe App Dev	ecies: Mouse plication Rou velopmental	oryo-foetal development e ite: Intraperitoneal Toxicity: LOAEL: 10 mg/kg body weight iortality, No malformations were observed.
		Spe App Dev	ecies: Rat plication Rou velopmental	oryo-foetal development ite: Intraperitoneal Toxicity: LOAEL: 50 mg/kg body weight iortality, No malformations were observed.
Repro sessm	oductive toxicity - As- nent			ce of adverse effects on development from ological studies.
betan	nethasone:			
Effect ment	s on foetal develop-	App Dev	elopmental/	t ite: Intramuscular Toxicity: LOAEL: 0.05 mg/kg body weight icity, Malformations were observed.
		App Dev	/elopmental	ite: Subcutaneous Toxicity: LOAEL: 0.42 mg/kg body weight lations were observed.
		App Dev	/elopmental	e ite: Intramuscular Toxicity: LOAEL: 1 mg/kg body weight iations were observed.
Repro sessm	oductive toxicity - As- nent		ar evidence mal experim	of adverse effects on development, based o ents.

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.



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Com	ponents:						
Gent	amicin:						
	et Organs	: Kidney, inner ear					
Asse	ssment	: Causes damage to exposure.	organs through prolonged or repeated				
betar	nethasone:						
Targe	et Organs		nune system, muscle, thymus gland, Blood				
Asse	ssment	Adrenal gland : Causes damage to exposure.	organs through prolonged or repeated				
Repe	ated dose toxicity						
Com	ponents:						
Prop	ylene glycol:						
Spec		: Rat, male					
NOA		: >= 1,700 mg/kg					
	cation Route sure time	: Ingestion : 2 yr					
Prop	an-2-ol:						
Spec		: Rat					
NOA	=∟ cation Route	: 12.5 mg/l : inhalation (vapour)	: 12.5 mg/l				
	sure time	: 104 Weeks					
Gent	amicin:						
Spec		: Dog					
LOAE	L cation Route	: 3 mg/kg : Intramuscular					
	sure time	: 12 Months					
Targe	et Organs	: Kidney					
Symp	otoms	: Vomiting, Salivatior	า				
Spec		: Monkey					
LOAE		: 50 mg/kg					
	cation Route sure time	: Subcutaneous : 3 Weeks					
	et Organs	: Kidney, inner ear					
Spec	ies	: Monkey					
LÒAE	EL	: 6 mg/kg					
	cation Route	: Intramuscular					
	sure time et Organs	: 3 Weeks : Blood, Kidney, inne	er ear, Liver				
Spec	ies	: Rat					



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Expos Targe NOAE LOAE Applic Expos	EL cation Route sure time et Organs ies EL EL cation Route sure time	: 5 mg/kg : 10 mg/kg : Intramuscular : 52 Weeks : Kidney, Blood : Rat : 12.5 mg/kg : 50 mg/kg : Intramuscular : 13 Weeks	
betar Speci LOAE Applie		: Kidney : Rabbit : 0.05 % : Skin contact : 10 - 30 d	
Speci LOAE Applic Expos		 Pituitary gland Rat 0.05 % Skin contact 8 Weeks thymus gland 	I, Immune system, muscle
Expo Targe	EL cation Route sure time et Organs	: Mouse : 0.1 % : Skin contact : 8 Weeks : thymus gland	
Expo		: Dog : 0.05 mg/kg : Oral : 28 d : Blood, thymus	s gland, Adrenal gland
Not c Expe	ration toxicity lassified based on ava rience with human e ponents:		
Gent	amicin: tion	: Target Organs Target Organs Symptoms: D deafness	

betamethasone:



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Inhala Skin d	ation contact	:	Target Organs: A Symptoms: Redr	Adrenal gland ness, pruritis, Irritation
SECTION	12. ECOLOGICAL INFO	ORN	ATION	
Ecoto	oxicity			
Com	ponents:			
Prop	ylene glycol:			
Toxic	ity to fish	:	LC50 (Oncorhyn Exposure time: 9	chus mykiss (rainbow trout)): 40,613 mg/l 16 h
	ity to daphnia and other tic invertebrates	:	EC50 (Ceriodapl Exposure time: 4	nnia dubia (water flea)): 18,340 mg/l 8 h
Toxic plants	ity to algae/aquatic s	 ErC50 (Skeletonema costatum (marine diatom)): 19,300 r Exposure time: 72 h Method: OECD Test Guideline 201 		'2 h
	ity to daphnia and other tic invertebrates (Chron-	:	NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l Exposure time: 7 d	
	ity to microorganisms	: NOEC (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h		
II Propa	an-2-ol:			
Toxic	ity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 9,640 mg/l 96 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia r Exposure time: 2	magna (Water flea)): > 10,000 mg/l 24 h
Toxic	ity to microorganisms	:	EC50 (Pseudom Exposure time: 1	onas putida): > 1,050 mg/l 6 h
Genta	amicin:			
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): 86 mg/l 8 h Fest Guideline 202
			LC50 (Americam Exposure time: 9 Method: US-EPA	
Toxic plants	ity to algae/aquatic s	:	Exposure time: 7	rchneriella subcapitata (green algae)): 10 μg/l 2 h Γest Guideline 201
			NOEC (Pseudok µg/l	irchneriella subcapitata (green algae)): 1.5



ersion)	Revision Date: 06.07.2024	SDS Number: 5344770-00011	Date of last issue: 06.04.2024 Date of first issue: 09.12.2019
			Test Guideline 201
		Exposure time:	a flos-aquae (cyanobacterium)): 4.7 μg/l 72 h Test Guideline 201
		Exposure time:	na flos-aquae (cyanobacterium)): 1.6 µg/l 72 h Test Guideline 201
Toxici	ty to microorganisms		
betan	nethasone:		
	ty to daphnia and other ic invertebrates	: EC50 (Americar Exposure time:	nysis): > 50 mg/l 96 h
Toxici plants	ty to algae/aquatic	mg/l Exposure time: Method: OECD	irchneriella subcapitata (green algae)): > 3 72 h Test Guideline 201 xicity at the limit of solubility
		mg/l Exposure time: Method: OECD	kirchneriella subcapitata (green algae)): 34 72 h Test Guideline 201 xicity at the limit of solubility
Toxici icity)	ty to fish (Chronic tox-	Exposure time:	ales promelas (fathead minnow)): 0.052 m 32 d Test Guideline 210
		Exposure time:	latipes (Japanese medaka)): 0.07 μg/l 219 d Test Guideline 229
	ty to daphnia and other ic invertebrates (Chron- city)	Exposure time:	a magna (Water flea)): 8 mg/l 21 d Test Guideline 211
Persi	stence and degradabil	ty	
Comp	oonents:		
Propy	/lene glycol:		
Biode	gradability	: Result: Readily Biodegradation:	



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11		Expos	ure time: 2	8 4	
				Fest Guideline 301F	
Prop	an-2-ol:				
	gradability	: Result	: rapidly de	egradable	
BOD/COD		COD: 2	BOD: 1,19 (BOD5) COD: 2,23 BOD/COD: 53 %		
Genta	amicin:				
	egradability	Biodeg Expos	: rapidly de gradation: ure time: 2 d: OECD	100 %	
Bioad	ccumulative potentia	I			
<u>Com</u>	ponents:				
Prop	ylene glycol:				
	ion coefficient: n- ol/water		w: -1.07 d: Regulat	ion (EC) No. 440/2008, Annex, A.8	
Prop	an-2-ol:				
Partit	ion coefficient: n- ol/water	: log Po	w: 0.05		
Genta	amicin:				
Partit octan	ion coefficient: n- ol/water	: log Po	w: < -2		
betar	nethasone:				
	ion coefficient: n- ol/water	: log Po	w: 2.11		
Mobi	lity in soil				
No da	ata available				
Othe	r adverse effects				
No da	ata available				

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.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

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

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

Not applicable for product as supplied.

National Regulations

ADG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (betamethasone)
Class	:	9
Packing group	:	
Labels	:	9
Hazchem Code	:	•3Z
Environmentally hazardous	:	yes



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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 environm ture	ent	al regulations/legislation specific for the substance or mix-
Therapeutic Goods (Poisons Standard) Instrument	:	No poison schedule number allocated (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date	:	06.07.2024
Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

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 : AU OEL :	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Australia. Workplace Exposure Standards for Airborne Con- taminants.			
ACGIH / TWA : ACGIH / STEL : AU OEL / TWA :	8-hour, time-weighted average Short-term exposure limit Exposure standard - time weighted average			



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AU OEL / STEL

: Exposure standard - short term exposure limit

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.

AU / EN