according to the OSHA Hazard Communication Standard



Betamethasone / Gentamicin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
3.0	07/06/2024	5344801-00013	Date of first issue: 12/09/2019

SECTION 1. IDENTIFICATION

Product name	:	Betamethasone / Gentamicin Formulation								
Manufacturer or supplier's	Manufacturer or supplier's details									
Company name of supplier Address		Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065								
Telephone Emergency telephone E-mail address	:	908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com								
Recommended use of the chemical and restrictions on use										
Recommended use Restrictions on use	:	Veterinary product Not applicable								

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord 1910.1200)	lan	ce with the OSHA Hazard Communication Standard (29 CFR
Eye irritation	:	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 been read and understood. P260 Do not breathe mist or vapors. 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 and face protection.

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Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical attention.

P337 + P313 If eye irritation persists: Get medical attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

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			
Propan-2-ol	67-63-0	16.3			
Gentamicin	1403-66-3	0.057			
Betamethasone	378-44-9	0.0455			

SECTION 4. 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 advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye irritation. May damage the unborn child. Causes damage to organs through prolonged or repeated



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Protection of first-aiders Notes to physician		:	exposure. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively.				
SEC	TION 5	. FIRE-FIGHTING ME	ASL	JRES			
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
	Unsuita media	able extinguishing	:	None known.			
	Specific fighting	c hazards during fire I	:	: Exposure to combustion products may be a hazard to healt			
		lous combustion prod-	:	Carbon oxides			
	Specifi ods	c extinguishing meth-	:	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 so. Evacuate area.			
		l protective equipment fighters	:				
SEC	TION 6	. ACCIDENTAL RELE	AS	E MEASURES			
	tive eq	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent 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.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

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			d 15 of this SDS provide information regarding national requirements.			
SECTION	7. HANDLING AND ST	ORAGE				
Techr	nical measures		ng measures under EXPOSURE ERSONAL PROTECTION section.			
Local	Total ventilation		tilation is unavailable, use with local exhaust			
Advic	e on safe handling	: Do not get on s Do not breathe Do not swallow Do not get in e Wash skin thor Handle in acco practice, based assessment Keep containe Do not eat, drir	mist or vapors. yes. oughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure			
Condi	tions for safe storage	 Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulation 				
Materials to avoid Store in accordance with the particular national residual for a constraint of the particular national for a constraint of the particular n						

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m ³	US WEEL
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal
	Further inform	nation: OTO		
Betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal



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		Further information				on: Skin				
			i un			ipe limit	10 µg/10	0 cm ²	Inte	ernal
Biolo	gical occupationa	I expos	ure l	imits						
Comp	onents	CAS-N	۱o.	Control paramete	rs	Biological specimen	Sam- pling time	Permiss concent tion		Basis
Propa	ın-2-ol	67-63-	·0	Acetone		Urine	End of shift at end of work- week	40 mg/l		ACGIH BEI
	neering measures		des pro Ess Use If h cat pot	sign and op tect produces sentially no e closed pr andled in a binet, fume ential exist	oera cts, ooce a lab hoc s fo	ontrols shou ted in accor workers, an en handling ssing syster poratory, use od, or other r aerosoliza	dance with d the enviro permitted. ms or conta e a properly containmer ttion. If this	GMP prin onment. inment te designed it device i potential d	chnolo chnolo d biosa f the	s to ogies. afety
	onal protective eq	uipment								
main conc unki Follo use by a haza supj relea circu			intain vapo ocentration (nown, app low OSHA NIOSH/M air purifying ardous cho oplied respi ease, expos	or ex s ar orop res SH/ g re emin arato sure whe	I exhaust ver exposures be e above rec riate respira pirator regu A approved spirators ag cal is limited or if there is a levels are are air purify on.	low recommended atory protect lations (29 respirators jainst exposed. Use a pose any potenti unknown, co	nended lin I limits or tion shoul CFR 1910 . Protectio sure to an sitive pres al for unco or any othe	mits. V are d be v).134) on pro y ssure a ontroll er	Where vorn. and vided air led	
Hand	protection									
Ма	aterial	:	Ch	emical-resi	star	nt gloves				
	emarks rotection	:	We If th Mis We pot	ne work en sts or aeros ear a facest	lass viro sols, nielo	gloving. ses with side nment or ac wear the a d or other fu t contact to	ctivity involv ppropriate (Il face prote	es dusty o goggles. ection if th	ere is	а
Skin a	and body protectior	n :	Wc Ad	ork uniform ditional boo	dy g	aboratory co	ould be use			he
			dis Us	posable su	its) ate c	ned (e.g., s to avoid exp legowning t thing.	bosed skin :	surfaces.		



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		working place. When using do Wash contamin The effective op engineering con appropriate deg	stems and safety showers close to the not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.					
SECTION	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES							

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor 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
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable

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Au	toignition temperature	:	No data availabl	e
De	composition temperature	:	No data available	e
	cosity Viscosity, kinematic plosive properties	:	No data availabl	9
Ox	idizing properties	:	The substance of	r mixture is not classified as oxidizing.
Мс	lecular weight	:	No data available	e
	rticle characteristics rticle 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	::	Oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:

Propylene glycol:		
Acute oral toxicity	:	LD50 (Rat): 22,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist

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Acute dermal toxicity		:	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute toxicity				
Prop	an-2-ol:						
Acute	e oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg			
Acute	inhalation toxicity	:	LC50 (Rat): > 25 mg/l Exposure time: 6 h Test atmosphere: vapor				
Acute	e dermal toxicity	:	LD50 (Rabbit): > \$	5,000 mg/kg			
Genta	amicin:						
Acute	e oral toxicity	:	LD50 (Rat): 8,000) - 10,000 mg/kg			
			LD50 (Mouse): 10),000 mg/kg			
Acute	inhalation toxicity	:	LC50 (Rat): > 0.2 Exposure time: 4 Test atmosphere: Remarks: No mor	h			
	Acute toxicity (other routes of administration)		LD50 (Rat): 67 - 9 Application Route				
			LD50 (Rat): 371 - Application Route				
			LDLo (Monkey): 3 Application Route				
II Betar	methasone:						
	e 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				
Skin	corrosion/irritation						
Not c	lassified based on availa	ble	information.				
Com	ponents:						
Prop	ylene glycol:						

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

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Propa	an-2-ol:			
Speci	es	: Rabbit		
Resu	lt	: No skin irritatio	n	
Genta	amicin:			
Speci	es	: Rabbit		
Resu		: Mild skin irritat	on	
Betar	nethasone:			
Speci	es	: Rabbit		
Resu	lt	: Mild skin irritat	on	
Serio	us eye damage/eye	irritation		
	es serious eye irritatio			
<u>Com</u>	oonents:			
Prop	ylene glycol:			
Speci	es	: Rabbit		
Resu		: No eye irritatio		
Metho	bd	: OECD Test Gu	iideline 405	
Propa	an-2-ol:			
Speci	es	: Rabbit		
Resu	lt	: Irritation to eye	s, reversing within 21 days	
Genta	amicin:			
Speci	es	: Rabbit		
Resu		: Mild eye irritati	on	
Betar	nethasone:			
Speci		: Rabbit		
Resu		: No eye irritatio	n	
Resp	iratory or skin sens	itization		
-	-			
-	sensitization lassified based on av	ailable information.		
Resn	iratory sensitization			
-	assified based on av			
<u>Com</u>	oonents:			
Prop	ylene glycol:			
Test		: Maximization 1	est	
Route	es of exposure	: Skin contact		
Speci		: Guinea pig		
	lt	: negative		

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Propa	ın-2-ol:						
Route Specie Metho	Test Type Routes of exposure Species Method Result		 Buehler Test Skin contact Guinea pig OECD Test Guideline 406 negative 				
Genta	micin:						
Rema	rks	:	No data available				
	nethasone:						
Route Specie Result		:	Dermal Guinea pig Weak sensitizer				
	cell mutagenicity assified based on availa	able	information.				
Comp	oonents:						
	lene glycol:						
Genot	oxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)			
			Test Type: Chron Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473			
	oxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) :: Intraperitoneal injection			
II Propa	ın-2-ol:						
	oxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)			
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test			
Genot	oxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) :: Intraperitoneal injection			
Genta	micin:						
Genot	oxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test			

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ersion)	Revision Date: 07/06/2024		OS Number: 44801-00013	Date of last issue: 04/06/2024 Date of first issue: 12/09/2019			
П							
			Test Type: Chro Result: equivoc	omosome aberration test in vitro al			
Geno	toxicity in vivo	:	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intravenous injection Result: negative				
Betar	nethasone:						
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	erial reverse mutation assay (AMES)			
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test			
			Test Type: Chro Result: positive	omosome aberration test in vitro			
Geno	toxicity in vivo	:	Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: equivoc	te: Oral			
	cell mutagenicity -	:	Weight of evide cell mutagen.	nce does not support classification as a gerr			
II Carci	nogenicity						
	lassified based on avai	lable	information.				
<u>Com</u>	<u>oonents:</u>						
Prop	ylene glycol:						
Speci	es	:	Rat				
	cation Route sure time	:	Ingestion 2 Years				
Resu		:	negative				
Propa	an-2-ol:						
Speci		:	Rat				
	cation Route	:	inhalation (vapo	ır)			
Expos	sure time od	:	104 weeks OECD Test Gui	deline 451			
Resu		:	negative	· · · · · ·			
Genta	amicin:						
Carcii ment	nogenicity - Assess-	:	No data availab	le			
ment							



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	identified as p	orob	able, possible or co	onfirmed human carcinogen by IARC.				
OSHA		No component of this product present at levels greater than or equal to 0.1% i on OSHA's list of regulated carcinogens.						
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.						
-	ductive toxicity amage the unborn child	Ι.						
-	onents:							
Propy	lene glycol:							
Effects	s on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study : Ingestion				
Effects on fetal development :		:	Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Result: negative					
Propa	n-2-ol:							
	s on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion				
Effects on fetal development :		:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative					
Genta	micin:							
	s on fertility	:	Species: Rat Fertility: NOAEL:	eneration reproduction toxicity study 20 mg/kg body weight cant adverse effects were reported				
Effects	on fetal development	:	Species: Rabbit	ro-fetal development oxicity: NOAEL: 3.6 mg/kg body weight o-fetal toxicity.				
			Species: Rat Application Route	oxicity: LOAEL: 75 mg/kg body weight				

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			Species: Mouse Application Route Developmental To	ro-fetal development : Intraperitoneal oxicity: LOAEL: 10 mg/kg body weight :ality., No malformations were observed.
			Species: Rat Application Route Developmental To	ro-fetal development : Intraperitoneal oxicity: LOAEL: 50 mg/kg body weight rality., No malformations were observed.
	oductive toxicity - As- ment	:	Positive evidence human epidemiol	of adverse effects on development from ogical studies.
II Bota	methasone:			
	ets on fetal development	:		: Intramuscular oxicity: LOAEL: 0.05 mg/kg body weight ty., Malformations were observed.
				: Subcutaneous oxicity: LOAEL: 0.42 mg/kg body weight ions were observed.
				: Intramuscular oxicity: LOAEL: 1 mg/kg body weight ions were observed.
	oductive toxicity - As- ment	:	Clear evidence of animal experimen	adverse effects on development, based on ts.
	T-single exposure classified based on availa	able	information.	
Com	ponents:			
Prop	oan-2-ol:			
-	essment	:	May cause drows	iness or dizziness.
et o	T reported experies			
Caus	T-repeated exposure ses damage to organs (P I gland) through prolonge			system, muscle, thymus gland, Blood, Ad- e.
Com	ponents:			
Gen	tamicin:			
-	et Organs essment	:	Kidney, inner ear Causes damage t exposure.	o organs through prolonged or repeated

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Betamethasone: Target Organs Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland Assessment :: Causes damage to organs through prolonged or repeated exposure. Repeated dose toxicity Components: Propylene glycol: Species :: Rat, male NOAEL ::> >= 1,700 mg/kg Application Route : Ingestion Exposure time :: 2 y Propan-2-oi: : Species :: Rat NOAEL :: 12.5 mg/l Application Route : Inhalation (vapor) Exposure time :: 104 Weeks Gentamicin: : Species : Dog LOAEL :: 3 mg/kg Application Route : Intramuscular Exposure time :: 12 Months Target Organs :: Wonkting, Salivation Species : Monkey LOAEL :: 5 mg/kg Application Route : Intramuscular Exposure time :: 3 Weeks Target Organs : Kidney, inner ear Species : Rat LOAEL : S mg/kg	Version 3.0	Revision Date: 07/06/2024	SDS Number: 5344801-00013	Date of last issue: 04/06/2024 Date of first issue: 12/09/2019
Adrenal gland Assessment : Causes damage to organs through prolonged or repeated exposure. Repeated dose toxicity Components: Propylene glycol: Species :: Rat, male NOAEL :: >= 1.700 mg/kg Application Route :: Ingestion Exposure time :: 2 y Propan-2-ol: :: Species :: Rat NOAEL :: 12.5 mg/l Application Route :: Inhalation (vapor) Exposure time :: 104 Weeks Gentamicin: : Species :: Dog LOAEL :: 3 mg/kg Application Route : Intramuscular Exposure time :: 12 Months Target Organs :: Vomiting, Salivation Species :: Monkey LOAEL :: 50 mg/kg Application Route :: Subcutaneous Exposure time :: 3 Weeks Target Organs :: Wonkey LOAEL :: 6 mg/kg Application Route :: Intramuscular Exposure time :: 3 Weeks Targ	Beta	methasone:		
Assessment : Causes damage to organs through prolonged or repeated exposure. Repeated dose toxicity Components: Propylene glycol: Species :: Rat, male NOAEL :: >= 1.700 mg/kg Application Route : Ingestion Exposure time :: 2 y Propan-2-ol: Species :: Rat NOAEL :: 12.5 mg/l Application Route : inhalation (vapor) Exposure time :: 100 gg LOAEL :: 12 Months Species :: Dog LOAEL :: 12 Months Target Organs :: Kidney Symptoms :: Voniting, Salivation Species :: Monkey LOAEL :: So mg/kg Application Route :: Monkey LOAEL :: Si mg/kg Application Route :: M	Targe	et Organs		Immune system, muscle, thymus gland, Blood,
Repeated dose toxicity Components: Propylene glycol: Species : Rat, male NOAEL : >= 1,700 mg/kg Application Route : Ingestion Exposure time : 2 y Propan-2-ol: Species : Rat NOAEL : 12.5 mg/l Application Route : Inhalation (vapor) Exposure time : 104 Weeks Gentamicin: : Species : Dog LOAEL : 3 mg/kg Application Route : Intramuscular Exposure time : 12 Months Target Organs : Vomiting, Salivation Species : Monkey LOAEL : 50 mg/kg Application Route : Subcutaneous Exposure time : 3 Weeks Target Organs : Kidney, inner ear. LOAEL : 6 mg/kg Application Route : Intramuscular Exposure time : 3 Weeks Target Organs : Kidney, inner ear, Liver Species : Rat MOAEL : 5 mg/kg <	Asse	ssment		e to organs through prolonged or repeated
Species Rat, male NOAEL :>=1,700 mg/kg Application Route :>: Propan-2-ol: :: Species : Ration Route :>: Application Route :>: Species : Species :>: Bypecies :>: Species :>: OAEL :>: Species :>: Species :>: Species :>: Species :: Species :: Symptoms :: Vorniting, Salivation Species :: Symptoms :: Species :: Species :: Species :: Species :: Symptoms ::	I		exposure.	
Propylene glycol: Species : Rat, male NOAEL : >= 1,700 mg/kg Application Route : Ingestion Exposure time : 2 y Propan-2-ol: : Species Species : Rat NOAEL : 12.5 mg/l Application Route : inhalation (vapor) Exposure time : 104 Weeks Gentamicin: : Species : Species : Dog Dog LOAEL : 3 mg/kg Application Route : Application Route : 1.1tramuscular Exposure time : 12 Months : Target Organs : Vomiting, Salivation Species : Monkey : LOAEL : : So mg/kg Application Route : : Stocutaneous Species : Monkey : LOAEL : : : LOAEL :	Repe	ated dose toxicity		
Species : Rat, male NOAEL : >= 1,700 mg/kg Application Route : Ingestion Exposure time : 2 y Propan-2-ol: : Species : Rat NOAEL : 12.5 mg/l Application Route : inhalation (vapor) Exposure time : 104 Weeks Gentamicin: : Species : Species : Dog LOAEL LOAEL : 3 mg/kg Application Route : Intramuscular Exposure time : 12 Months Target Organs : Kidney Symptoms : Vomiting, Salivation Species : Monkey LOAEL : 50 mg/kg Application Route : Subcutaneous Exposure time : : Species : Monkey LOAEL : : Target Organs : : Species	Com	ponents:		
NOAEL : >= 1,700 mg/kg Application Route : Ingestion Exposure time : 2 y Propan-2-ol: Species : Rat NOAEL : 12.5 mg/l Application Route : inhalation (vapor) Exposure time : 104 Weeks Gentamicin:	Prop	ylene glycol:		
Application Route : Ingestion Exposure time : 2 y Propan-2-ol: : Species : Rat NOAEL : 12.5 mg/l Application Route : inhalation (vapor) Exposure time : 104 Weeks Gentamicin: : Species : Species : Dog . LOAEL : 3 mg/kg . Application Route : Intramuscular Exposure time : 12 Months Target Organs : Vomiting, Salivation Species : Monkey LOAEL : 50 mg/kg Application Route : Subcutaneous Exposure time : 3 Weeks Target Organs : Kidney, inner ear Species : Monkey LOAEL : 6 mg/kg Application Route : Intramuscular Exposure time : 3 Weeks Target Organs : <t< td=""><td></td><td></td><td></td><td></td></t<>				
Exposure time : 2 y Propan-2-ol: Species : Rat NOAEL : 12.5 mg/l Application Route : inhalation (vapor) Exposure time : 104 Weeks Gentamicin:				9
Propan-2-ol: Species : Rat NOAEL : 12.5 mg/l Application Route : inhalation (vapor) Exposure time : 104 Weeks Gentamicin: Species : Species : 0.0g LOAEL : 3 mg/kg Application Route : Intramuscular Exposure time : 12 Months Target Organs : Kidney Symptoms : Vomiting, Salivation Species : Monkey LOAEL : 50 mg/kg Application Route : Subcutaneous Exposure time : 3 Weeks Target Organs : Kidney, inner ear Species : Monkey LOAEL : 6 mg/kg Application Route : Intramuscular Exposure time : 3 Weeks Target Organs : Blood, Kidney, inner ear, Liver Species : Rat NOAEL			-	
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Species : Rat NOAEL : 12.5 mg/kg				
NOAEL : 12.5 mg/kg		-	-	
	II-CAL		. 00 mg/kg	

according to the OSHA Hazard Communication Standard



Betamethasone / Gentamicin Formulation

ersion .0	Revision Date: 07/06/2024	SDS Number: 5344801-00013	Date of last issue: 04/06/2024 Date of first issue: 12/09/2019
Expo	cation Route sure time et Organs	: Intramuscular : 13 Weeks : Kidney	
Beta	methasone:		
Expo		: Rabbit : 0.05 % : Skin contact : 10 - 30 d : Pituitary gland	I, Immune system, muscle
Expo		: Rat : 0.05 % : Skin contact : 8 Weeks : thymus gland	
Expo		: Mouse : 0.1 % : Skin contact : 8 Weeks : thymus gland	
Expo		: Dog : 0.05 mg/kg : Oral : 28 d : Blood, thymus	s gland, Adrenal gland
-	ration toxicity		
	lassified based on averience with human		
•	ponents:	caposule	
	amicin:		
Inges	stion	: Target Organs Target Organs Symptoms: Di deafness	
Beta	methasone:		s: Adrenal gland

Ecotoxicity

Components:

Propylene glycol:

SAFETY DATA SHEET according to the OSHA Hazard Communication Standard



Version 3.0	Revision Date: 07/06/2024		0S Number: 44801-00013	Date of last issue: 04/06/2024 Date of first issue: 12/09/2019	
Toxicity	Toxicity to fish		LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h		
	y to daphnia and other invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l Exposure time: 48 h		
Toxicity plants	Toxicity to algae/aquatic plants		ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/ Exposure time: 72 h Method: OECD Test Guideline 201		
	y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Ceriodaph Exposure time: 7	nnia dubia (water flea)): 13,020 mg/l d	
	y to microorganisms	:	NOEC (Pseudome Exposure time: 18	onas putida): > 20,000 mg/l 3 h	
Propar	n-2-ol:				
	y to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 9,640 mg/l 3 h	
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10,000 mg/l I h	
Toxicity	y to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1,050 mg/l s h	
II Gentar	nicin:				
Toxicity	/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
			LC50 (Americamy Exposure time: 96 Method: US-EPA	Sh'	
Toxicity plants	y to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokir µg/l Exposure time: 72 Method: OECD Te		
			EC50 (Anabaena Exposure time: 72 Method: OECD Te		
			NOEC (Anabaena Exposure time: 72 Method: OECD Te		

according to the OSHA Hazard Communication Standard



Betamethasone / Gentamicin Formulation

Version 3.0	Revision Date: 07/06/2024		0S Number: 44801-00013	Date of last issue: 04/06/2024 Date of first issue: 12/09/2019
Toxic	Toxicity to microorganisms		: EC50: 288.7 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209	
Betar	nethasone:			
	ity to daphnia and other ic invertebrates	:	EC50 (Americam) Exposure time: 96	
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 72 Method: OECD T	
Toxici icity)	ity to fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 32 Method: OECD T	
			NOEC (Oryzias la Exposure time: 2 ⁻⁷ Method: OECD T	
	ity to daphnia and other ic invertebrates (Chron- icity)		NOEC (Daphnia r Exposure time: 27 Method: OECD T	
II Persi	stence and degradabil	ity		
Com	oonents:	-		
Propy	ylene glycol:			
Biode	gradability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD T	98.3 %
Propa	an-2-ol:			
Biode	gradability	:	Result: rapidly de	gradable
BOD/	COD	:	BOD: 1,19 (BOD COD: 2,23 BOD/COD: 53 %	5)
II Genta	amicin:			

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Version 3.0	Revision Date: 07/06/2024		DS Number: 344801-00013	Date of last issue: 04/06/2024 Date of first issue: 12/09/2019	
Biode	Biodegradability		: Result: rapidly degradable Biodegradation: 100 % Exposure time: 28 d Method: OECD Test Guideline 314		
Bioad	ccumulative potential				
Comp	oonents:				
Partiti	Propylene glycol: Partition coefficient: n- octanol/water		log Pow: -1.07 Method: Regulati	on (EC) No. 440/2008, Annex, A.8	
Propa	an-2-ol:				
	ion coefficient: n- ol/water	:	log Pow: 0.05		
Genta	amicin:				
	ion coefficient: n- ol/water	:	log Pow: < -2		
Betar	nethasone:				
	ion coefficient: n- ol/water	:	log Pow: 2.11		
	lity in soil ata available				
	r adverse effects ata available				

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(betamethasone)
Class	:	9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	yes

according to the OSHA Hazard Communication Standard



Betamethasone / Gentamicin Formulation

ersion .0	Revision Date: 07/06/2024		Number: 301-00013	Date of last issue: 04/06/2024 Date of first issue: 12/09/2019
ΙΑΤΑ-	DCP			
UN/ID	-	· 11	N 3082	
	r shipping name	-		y hazardous substance, liquid, n.o.s.
	a shipping hame		Betamethasor	
Class		: 9	Setamethaser	
	ng group	: 111		
Labels		: M	iscellaneous	
Packii aircrai	ng instruction (cargo ft)	: 96	54	
	ng instruction (passen-	: 96	64	
	onmentally hazardous	: ye	es	
IMDG	-Code			
UN nu	umber	: U	N 3082	
Proper shipping name		Ν	NVIRONMEN .O.S. setamethason	TALLY HAZARDOUS SUBSTANCE, LIQUII e)
Class		: Ì		,
Packi	ng group	: 111		
Labels		: 9		
EmS	Code	: F·	A, S-F	
Marin	e pollutant	: ye	es	
Trans	port in bulk according	j to An	nex II of MA	RPOL 73/78 and the IBC Code
Not ap	oplicable for product as	supplie	d.	
Dome	estic regulation			
49 CF	R			
UN/ID	/NA number	: U	N 3082	
Prope	er shipping name	: Ei	nvironmentall	y hazardous substance, liquid, n.o.s.
		(Betamethasor	ne)
Class		: 9		
Packi	ng group	: 111		
Labels			LASS 9	
ERG		: 17		
	e pollutant		es(Betametha	
Remarks	irks	lit	ers.	only to containers over 119 gallons or 450
				ound under DOT is non-regulated; however
				d per the applicable hazard classification to nodal transport involving ICAO (IATA) or IMC
Sneci	al precautions for use			,
•	•			for informational purposes only, and solely

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

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

according to the OSHA Hazard Communication Standard



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Version 3.0	Revision Date: 07/06/2024	-	S Number: 44801-00013		sue: 04/06/2024 sue: 12/09/2019
	A 304 Extremely Haza naterial does not conta			-	•
	A 302 Extremely Haza naterial does not conta				• •
SARA	A 311/312 Hazards	:			gle or repeated exposure) tion
SARA	A 313	:		omponents are su SARA Title III, Se	bject to reporting levels ction 313:
			Propan-2-ol	67-63-0	16.3 %
US St	ate Regulations				
Penns	sylvania Right To Kn	ow			
	Propylene glycol Propan-2-ol Water				57-55-6 67-63-0 7732-18-5
WARN to the		cause			ntamicin, which is/are known harm. For more information
Califo	ornia List of Hazardo	us Su	bstances		
	Propan-2-ol				67-63-0
Califo	ornia Permissible Exp Propan-2-ol	posur	e Limits for Che	emical Contamin	ants 67-63-0
The ir	ngredients of this pro	oduct	are reported in	the following inv	ventories:
AICS		:	not determined		
DSL		:	not determined		
IECS	C	:	not determined		

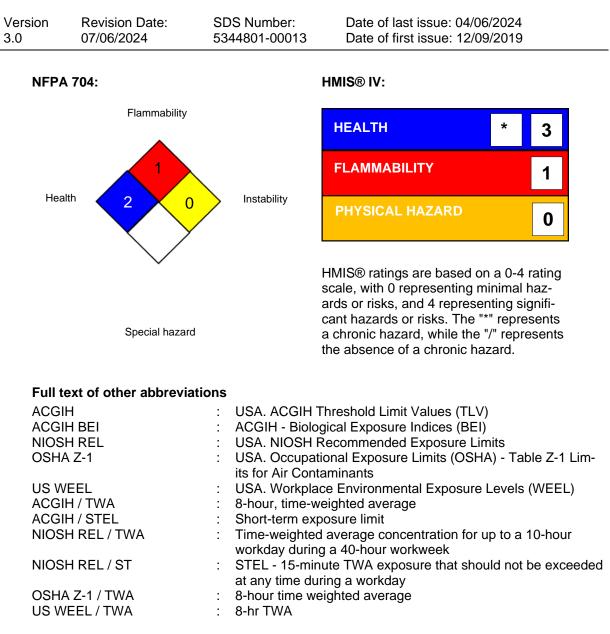
SECTION 16. OTHER INFORMATION

Further information



according to the OSHA Hazard Communication Standard

Betamethasone / Gentamicin Formulation



AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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 Pre-



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Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
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vention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material 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/

Revision Date : 07/06/2024

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

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

US / Z8