SAFETY DATA SHEETS

This SDS packet was issued with item: 078946988

N/A



Version 6.2	Revision Date: 09/13/2019	SDS Number: 434598-00014	Date of last issue: 04/24/2019 Date of first issue: 01/06/2016
SECTION	1. IDENTIFICATION		
Prod	uct name	: Gentamicin / B	etamethasone Formulation
Manu	ufacturer or supplier's	details	
Com Addro	pany name of supplier ess	: Merck & Co., I : 2000 Galloping Kenilworth - Ne	
	phone	: 908-740-4000	
Telef		: 908-735-1496	0
	rgency telephone ail address	: 1-908-423-600 : EHSDATASTE	⊍ WARD@merck.com
Reco	ommended use of the c		-
Reco	mmended use	: Veterinary proc	duct
SECTION	2. HAZARDS IDENTIFI	CATION	
GHS	classification in accord	dance with 29 CFR	1910.1200
Repr	oductive toxicity	: Category 1A	
	ific target organ toxicity eated exposure	: Category 1 (Pir gland, Blood, A	tuitary gland, Immune system, muscle, thymus Adrenal gland)
GHS	label elements		
Haza	rd pictograms		
Signa	al Word	: Danger	
Haza	rd Statements	H372 Causes of system, muscle	mage the unborn child. damage to organs (Pituitary gland, Immune e, thymus gland, Blood, Adrenal gland) through epeated exposure.
Preca	autionary Statements	Prevention:	
		P201 Obtain s P202 Do not ha and understoo P260 Do not b P264 Wash sk P270 Do not e	reathe mist or vapors. in thoroughly after handling. at, drink or smoke when using this product. otective gloves/ protective clothing/ eye protectio
		Response: P308 + P313 I attention.	F exposed or concerned: Get medical advice/
		Storage: P405 Store loc	ked up.



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		P	i sposal: 501 Dispose c osal plant.	f contents/ container to an approved waste dis	
	r hazards known.				
	3. COMPOSITION/INF	ORMAT		REDIENTS	
Subs	tance / Mixture	: M	ixture		
Com	ponents				
	nical name		CAS-No.	Concentration (% w/w)	
Polye	thylene glycol stearate		9004-99-3	5	
Genta	amicin		1403-66-3	0.49	
Betar	nethasone		378-44-9	0.1	
lf inha	aled	ad	lvice.	s persist or in all cases of doubt seek medical ve to fresh air.	
	aleu		et medical atte		
In cas	se of skin contact	of R G W	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 cas	se of eye contact		: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
lf swa	allowed	: lf G	 If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. First Aid responders should pay attention to self-protection, 		
and e delay	important symptoms effects, both acute and ed ction of first-aiders	: M Ca e>			
		ar	nd use the rec	ommended personal protective equipment tial for exposure exists (see section 8).	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2)
Unsuitable extinguishing		Dry chemical None known.
media	•	None known.



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	Specific hazards during fire fighting Hazardous combustion prod- ucts		:	Exposure to comb Carbon oxides	pustion products may be a hazard to health.
	Specific extinguishing meth- ods Special protective equipment for fire-fighters		:	Use extinguishing measures that are appropriate to local ci 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. In the event of fire, wear self-contained breathing apparatu Use personal protective equipment.	
SEC	CTION 6	. ACCIDENTAL RELE	ASE	EMEASURES	
	Personal precautions, protec- tive equipment and emer- gency procedures		:	Use personal prot Follow safe handl equipment recom	ing advice and personal protective
	Enviror	nmental precautions	:	Prevent further lea Prevent spreading oil barriers). Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages red.
		ls and materials for ment and cleaning up	:	For large spills, pro- containment to kee can be pumped, so container. Clean up remaining absorbent. Local or national of disposal of this m employed in the co determine which of Sections 13 and 1	a absorbent material. Tovide diking or other appropriate the material from spreading. If diked material store recovered material in appropriate and materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EX CONTROLS/PERSONAL PROTECT	
Local/Total ventilation	If sufficient ventilation is unavailable, ventilation.	use with local exhaust
Advice on safe handling	Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Avoid contact with eyes. Handle in accordance with good indus practice, based on the results of the v	



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Conditions for safe storage		assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to environment. Keep in properly labeled containers. Store locked up.				
Materials to avoid			nce with the particular national regulations. the following product types: agents			

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
Polyethylene glycol stearate	9004-99-3	TWA (Inhal- able fraction)	10 mg/m³	ACGIH
		TWA (Res- pirable frac- tion)	3 mg/m³	ACGIH
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal
Betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
Further info		Further information: Skin		
		Wipe limit	10 µg/100 cm ²	Internal

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 :	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide



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Hand	protection	adequate prote	ection.			
Material		: Chemical-resistant gloves				
Remarks Eye protection		: Wear safety gla If the work env mists or aeroso Wear a facesh	 Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols 			
Skin and body protection		: Work uniform of Additional body task being perf disposable suit	or laboratory coat. y garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, ts) to avoid exposed skin surfaces. The degowning techniques to remove potentially clothing.			
Hygiene measures		: If exposure to e eye flushing sy working place. When using do Wash contamin The effective o engineering co appropriate de industrial hygie	chemical is likely during typical use, provide extems and safety showers close to the o 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, ene monitoring, medical surveillance and the trative controls.			

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	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper	:	No data available



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	flamma	bility limit			
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	No data available	1
		ition 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 or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	size	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

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 products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact

Ingestion Eye contact



rsion	Revision Date: 09/13/2019			Date of last issue: 04/24/2019 Date of first issue: 01/06/2016
	toxicity			
	assified based on availa	ble	information.	
<u>Produ</u> Acute	<u>ict:</u> inhalation toxicity	:	Acute toxicity estim Exposure time: 4 h Test atmosphere: 0 Method: Calculatio	ı dust/mist
<u>Comp</u>	oonents:			
Polye	thylene glycol stearate	:		
Acute	oral toxicity	:	LD50 (Rat): > 5,00	0 mg/kg
Genta	amicin:			
Acute	oral toxicity	:	LD50 (Rat): 8,000	- 10,000 mg/kg
			LD50 (Mouse): 10,	000 mg/kg
Acute	inhalation toxicity	:	Exposure time: 4 h Test atmosphere: c	1
	toxicity (other routes of istration)	:	LD50 (Rat): 67 - 96 Application Route:	
			LD50 (Rat): 371 - 3 Application Route:	
			LDLo (Monkey): 30 Application Route:	
Betan	nethasone:			
Acute	oral toxicity	:	LD50 (Rat): > 5,00	0 mg/kg
			LD50 (Mouse): > 4	.,500 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0.4 mg Exposure time: 4 h	
-	corrosion/irritation assified based on availa	ble	information.	
Comp	oonents:			
Polye	thylene glycol stearate	:		
Specie Resul		:	Rabbit No skin irritation	
Genta	amicin:			
Specie	es	:	Rabbit	



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Resul	t	: Mild skin irritatio	n
Betar	nethasone:		
Speci	es	: Rabbit	
Resul	t	: Mild skin irritatio	n
Serio	us eye damage/eye	irritation	
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
-	thylene glycol stea		
Speci Resul	es t	: Rabbit : No eye irritation	
Genta	amicin:		
Speci		: Rabbit	
Resul	t	: Mild eye irritatio	n
	nethasone:		
Speci Resul		: Rabbit : No eye irritation	
-	iratory or skin sens	itization	
	sensitization		
Not cl	assified based on av	ailable information.	
Resp	iratory sensitization	I	
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Polye	thylene glycol stea	rate:	
	s of exposure	: Skin contact	
Speci		: Guinea pig	
Resul	t	: negative	
Genta	amicin:		
Rema	ırks	: No data availab	le
Betar	nethasone:		
	s of exposure	: Dermal	
Speci		: Guinea pig	
Resul	τ	: Weak sensitizer	
Germ	cell mutagenicity		



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<u>Com</u>	ponents:					
Polye	ethylene g	lycol stearate	: :			
Geno	toxicity in	vitro	:	Test Type: Bacteri Result: negative	ial reverse mutation assay (AMES)	
Genta	amicin:					
Geno	toxicity in	vitro	:	Test Type: In vitro Result: negative	mammalian cell gene mutation test	
				Test Type: Chrom Result: equivocal	osome aberration test in vitro	
Geno	toxicity in	vivo	:	cytogenetic assay Species: Mouse	alian erythrocyte micronucleus test (in vivo) : Intravenous injection	
Betar	methason	e:				
Geno	toxicity in	vitro	:	Test Type: Bacteri Result: negative	ial reverse mutation assay (AMES)	
				Test Type: In vitro Result: negative	mammalian cell gene mutation test	
				Test Type: Chrom Result: positive	osome aberration test in vitro	
Geno	toxicity in	vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route: Result: equivocal		
	i cell muta ssment	genicity -	:	Weight of evidence cell mutagen.	e does not support classification as a germ	
	Carcinogenicity Not classified based on available information.					
Com	ponents:					
Genta	amicin:					
Carci ment	• •	- Assess-	:	No data available		
IARC					at levels greater than or equal to 0.1% is nfirmed human carcinogen by IARC.	
OSH	A			this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.	
NTP		No ingredient	of tł	nis product present	at levels greater than or equal to 0.1% is	
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	identified as a	ı kn	own or anticipated	carcinogen by NTP.
-	oductive toxicity damage the unborn child			
<u>Com</u>	ponents:			
	amicin: ts on fertility	:	Species: Rat Fertility: NOAEL:	generation reproduction toxicity study 20 mg/kg body weight cant adverse effects were reported
Effec	ts on fetal development	:	Species: Rabbit	yo-fetal development oxicity: NOAEL: 3.6 mg/kg body weight /o-fetal toxicity.
			Species: Rat Application Route	oxicity: LOAEL: 75 mg/kg body weight
			Species: Mouse Application Route Developmental T	yo-fetal development e: Intraperitoneal oxicity: LOAEL: 10 mg/kg body weight tality., No malformations were observed.
			Species: Rat Application Route Developmental T	yo-fetal development e: Intraperitoneal oxicity: LOAEL: 50 mg/kg body weight tality., No malformations were observed.
Repr sessi	oductive toxicity - As- ment	:	Positive evidence human epidemio	e of adverse effects on development from logical studies.
	methasone: ts on fetal development	:		e: Intramuscular oxicity: LOAEL: 0.05 mg/kg body weight ity., Malformations were observed.
			Species: Rat Application Route Developmental T	
				e: Intramuscular oxicity: LOAEL: 1 mg/kg body weight tions were observed.



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Repro sessn	oductive toxicity - As- nent	: Clear evidence animal experi	ce of adverse effects on development, based on ments.
STOT	-single exposure		
Not cl	assified based on avai	lable information.	
STOT	-repeated exposure		
	es damage to organs (l gland) through prolong		une system, muscle, thymus gland, Blood, Ad- osure.
<u>Comp</u>	oonents:		
Genta	amicin:		
-	et Organs ssment	: Kidney, inner : Causes dama exposure.	ear age to organs through prolonged or repeated
Betar	nethasone:		
Targe	et Organs		d, Immune system, muscle, thymus gland, Bloc
Asses	ssment	Adrenal gland : Causes dama exposure.	age to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
	<u>oonents:</u> amicin:		
Genta Speci	amicin: es	: Dog	
Genta Speci LOAE	a micin: es :L	: 3 mg/kg	
Genta Speci LOAE Applic	amicin: es :L cation Route	: 3 mg/kg : Intramuscular	ŗ
Genta Speci LOAE Applic Expos	amicin: es :L cation Route sure time	: 3 mg/kg : Intramuscular : 12 Months	ſ
Genta Speci LOAE Applic Expos	amicin: es EL cation Route sure time t Organs	: 3 mg/kg : Intramuscular	
Genta Speci LOAE Applic Expos Targe Symp	amicin: es EL cation Route sure time ot Organs toms	: 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Sal	
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE	amicin: es EL cation Route sure time et Organs toms es	: 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Sal : Monkey : 50 mg/kg	ivation
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic	amicin: es EL cation Route sure time et Organs toms es EL cation Route	: 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Sal : Monkey : 50 mg/kg : Subcutaneou	ivation
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos	amicin: es EL cation Route sure time et Organs toms toms ES EL cation Route sure time	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks 	ivation s
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe	amicin: es EL cation Route sure time ot Organs toms es EL cation Route sure time ot Organs	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks Kidney, inner 	ivation s
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Speci	amicin: es EL cation Route sure time et Organs toms es EL cation Route sure time et Organs es	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks Kidney, inner Monkey 	ivation s
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Speci LOAE	amicin: es EL cation Route sure time et Organs toms es EL cation Route sure time et Organs es	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks Kidney, inner Monkey 6 mg/kg 	ivation s ear
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Speci LOAE Applic	amicin: es EL cation Route sure time et Organs toms es EL cation Route sure time et Organs es	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks Kidney, inner Monkey 	ivation s ear
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Speci LOAE Applic Expos	amicin: es EL cation Route sure time et Organs toms es EL cation Route sure time et Organs es EL cation Route	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks Kidney, inner Monkey 6 mg/kg Intramuscular 3 Weeks 	ivation s ear
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Speci LOAE Applic Expos	amicin: es EL cation Route sure time et Organs toms es EL cation Route sure time et Organs es EL cation Route sure time et Organs	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks Kidney, inner Monkey 6 mg/kg Intramuscular 3 Weeks 	ivation s ear
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci Speci	amicin: es EL cation Route sure time et Organs toms es EL cation Route sure time et Organs es EL cation Route sure time et Organs es EL cation Route sure time et Organs	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks Kidney, inner Monkey 6 mg/kg Intramuscular 3 Weeks Blood, Kidney Rat 5 mg/kg 	ivation s ear
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci LOAE Applic Expos Targe	amicin: es EL cation Route sure time et Organs toms es EL cation Route sure time et Organs es EL cation Route sure time et Organs es EL cation Route sure time et Organs	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks Kidney, inner Monkey 6 mg/kg Intramuscular 3 Weeks Blood, Kidney Rat 5 mg/kg 10 mg/kg 	ivation s ear y, inner ear, Liver
Genta Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci LOAE Applic Expos Targe	amicin: es EL cation Route sure time et Organs toms es EL cation Route sure time et Organs es EL cation Route sure time et Organs es EL cation Route sure time et Organs	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Sal Monkey 50 mg/kg Subcutaneou 3 Weeks Kidney, inner Monkey 6 mg/kg Intramuscular 3 Weeks Blood, Kidney Rat 5 mg/kg 	ivation s ear y, inner ear, Liver



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Expo	EL	: Rat : 12.5 mg/kg : 50 mg/kg : Intramuscula : 13 Weeks : Kidney	ar
Beta	methasone:		
Expo		: Rabbit : 0.05 % : Skin contact : 10 - 30 d : Pituitary gla	nd, Immune system, muscle
Expo		: Rat : 0.05 % : Skin contact : 8 Weeks : thymus glan	
Expo		: Mouse : 0.1 % : Skin contact : 8 Weeks : thymus glan	
Expo		: Dog : 0.05 mg/kg : Oral : 28 d : Blood, thym	us gland, Adrenal gland
Aspi	ration toxicity		
	lassified based on ava	ailable information.	
Expe	rience with human e	exposure	
Com	ponents:		
Gent Inges	amicin: stion		ns: Kidney ns: inner ear Dizziness, Vertigo, hearing loss, tinnitus, fetal
	methasone:		
Inhala Skin	ation contact		ns: Adrenal gland Redness, pruritis, Irritation



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ECTIO	CTION 12. ECOLOGICAL INFORMATION							
Eco	otoxicity							
<u>Cor</u>	nponents:							
Pol	yethylene glycol stearate	e:						
Тох	icity to fish	:	LC50 (Leuciscus Exposure time: 9 Method: DIN 384					
Тох	icity to microorganisms	:	EC10: > 10,000 Exposure time: 1					
Ger	ntamicin:							
	icity to daphnia and other atic invertebrates	:	Exposure time: 4	nagna (Water flea)): 86 mg/l 8 h Fest Guideline 202				
			LC50 (Americam Exposure time: 9 Method: US-EPA					
Tox plar	icity to algae/aquatic its	:	Exposure time: 7	rchneriella subcapitata (green algae)): 10 μg '2 h Γest Guideline 201				
			µg/l Exposure time: 7	irchneriella subcapitata (green algae)): 1.5 ′2 h ſest Guideline 201				
			Exposure time: 7	a flos-aquae (cyanobacterium)): 4.7 μg/l 2 h Γest Guideline 201				
			Exposure time: 7	a flos-aquae (cyanobacterium)): 1.6 μg/l '2 h Γest Guideline 201				
Тох	icity to microorganisms	:	EC50: 288.7 mg/ Exposure time: 3 Test Type: Resp Method: OECD 1	5 h				
Bet	amethasone:							
	icity to daphnia and other atic invertebrates	:	EC50 (American Exposure time: 9					
Tox plar	icity to algae/aquatic its	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): > 34 ′2 h Γest Guideline 201				



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			Remarks: No toxic	sity at the limit of solubility.
			mg/l Exposure time: 72 Method: OECD Te	
Toxicity icity)	y to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
			NOEC (Oryzias la Exposure time: 21 Method: OECD Te	
	invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
Persis	tence and degradabili	ity		
Compo	onents:			
-	hylene glycol stearate radability	:	Result: Readily bio Biodegradation: > Exposure time: 10 Method: OECD Te	· 70 %
Gentar Biodeg	nicin: radability	:	Result: rapidly deg Biodegradation: 1 Exposure time: 28 Method: OECD Te	00 % 6 d
Bioaco	umulative potential			
Compo	onents:			
-	hylene glycol stearate	: :		
Partitio octano	n coefficient: n- l/water	:	log Pow: 6.16	
Gentar Partitio octano	n coefficient: n-	:	log Pow: < -2	
	ethasone: n coefficient: n- l/water	:	log Pow: 2.11	
	y in soil a available			

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Othe	r adverse effects		
	ata available		
ECTION	13. DISPOSAL CONSI	DERATIONS	
-	osal methods		
	e from residues aminated packaging	: Empty contain handling site	accordance with local regulations. iners should be taken to an approved waste for recycling or disposal. se specified: Dispose of as unused product.
ECTION	14. TRANSPORT INFO	RMATION	
Interr	national Regulations		
UNR	ſDG		
	umber er shipping name	N.O.S.	ENTALLY HAZARDOUS SUBSTANCE, LIQUID
Class		(Gentamicin : 9	, Benzalkonium chloride)
-	ng group	:	
Label		: 9	
IATA			
UN/IE Bronc) No. er shipping name	: UN 3082	ally hazardous substance, liquid, n.o.s.
		(Gentamicin	, Benzalkonium chloride)
Class Packi	ng group	: 9 : III	
Label	S	: Miscellaneou	IS
Packi aircra	ng instruction (cargo ft)	: 964	
	ng instruction (passen- rcraft)	: 964	
Enviro	onmentally hazardous	: yes	
	-Code		
	umber er shipping name	: UN 3082	ENTALLY HAZARDOUS SUBSTANCE, LIQUID
iiope		N.O.S.	
. .		•	Benzalkonium chloride)
Class		: 9 : III	
Label	ng group s	: 9	
EmS		: F-A, S-F	
Marin	e pollutant	: yes	
	sport in bulk according	-	ARPOL 73/78 and the IBC Code
	estic regulation		
49 CF	R		
UN/IE)/NA number	: UN 3082	
Prope	er shipping name	: Environment	ally hazardous substance, liquid, n.o.s.



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6.2	09/13/2019	434598-00014	Date of first issue: 01/06/2016
Labels ERG C	Code e pollutant	: 9 : III : CLASS 9 : 171 : yes(Gentamic : Above applies liters., Shipme however it ma	Benzalkonium chloride) in, Benzalkonium chloride) only to containers over 119 gallons or 450 ent by ground under DOT is non-regulated; y be shipped per the applicable hazard o facilitate multi-modal transport involving ICAO

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

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Reproductive toxicity Specific target organ toxicity (single or repeated exposure)
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

Water	7732-18-5
Polyethylene glycol stearate	9004-99-3
Polyethylene glycol castor oil	61791-12-6

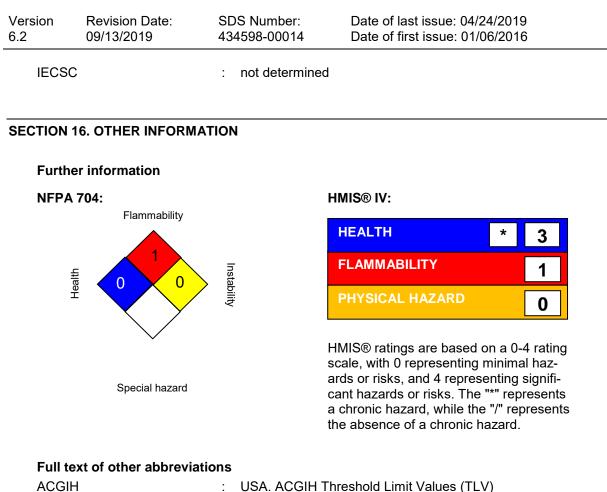
California Prop. 65

WARNING: This product can expose you to chemicals including Gentamicin, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

AICS	:	not determined
DSL	:	not determined





ACGIH	:	USA. ACGIH Threshold Limit Values (TL
ACGIH / TWA	:	8-hour, time-weighted average

AICS - Australian Inventory of Chemical Substances; 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 Prevention 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;



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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; 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	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

Revision Date : 09/13/2019

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