

Versi 4.0	ion	Revision Date: 2024/07/06		S Number: 4794-00012	Date of last issue: 2024/04/06 Date of first issue: 2019/12/09
1. PF	RODUC	T AND COMPANY IDI	ENT	IFICATION	
	Produc	t name	:	Betamethasone /	Gentamicin Formulation
	Manufa	acturer or supplier's d	letai	ls	
	Compa	ny	:	MSD	
	Addres	S	:	126 E. Lincoln Av Rahway, New Je	venue ersey U.S.A. 07065
	Telepho	one	:	908-740-4000	
	Emerge	ency telephone number	· :	1-908-423-6000	
	E-mail :	address	:	EHSDATASTEW	/ARD@msd.com
	Recom	mended use of the ch	nem	ical and restriction	ons on use
		mended use tions on use	:	Veterinary produ Not applicable	ct

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)
Long-term (chronic) aquatic hazard	:	Category 1
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.



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		H410 Very tox	ic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P273 Avoid rel	reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. lease to the environment. otective gloves/ protective clothing/ eye protec-
		for several min easy to do. Co P308 + P313 I attention.	F exposed or concerned: Get medical advice/ f eye irritation persists: Get medical advice/ at-
		Storage: P405 Store loc	sked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
	r hazards which do n known.	ot result in classifica	tion

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propan-2-ol	67-63-0	>= 10 -< 20
Methyl p-Hydroxybenzoate	99-76-3	>= 0.25 -< 2.5
Gentamicin	1403-66-3	>= 0.025 -< 0.25
betamethasone	378-44-9	>= 0.025 -< 0.25

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.	



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In	case of skin contact	:	of water.	tion. , immediately flush skin with soap and plenty nated clothing and shoes.			
In	case of eye contact	:	Get medical atten Wash clothing be Thoroughly clean In case of contact for at least 15 min	tion. fore reuse. shoes before reuse. , immediately flush eyes with plenty of water putes. ove contact lens, if worn.			
lf s	swallowed	:		NOT induce vomiting.			
an	ost important symptoms d effects, both acute and layed	:	Rinse mouth thore Causes serious e May damage the Causes damage t	bughly with water. ye irritation.			
Pro	Protection of first-aiders		exposure. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment				
Nc	tes to physician	:	when the potential for exposure exists (see section 8). Treat symptomatically and supportively.				
5. FIRE	FIGHTING MEASURES						
Su	itable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
	suitable extinguishing edia	:	None known.				
Sp	ecific hazards during fire- hting	:	Exposure to comb	pustion products may be a hazard to health.			
	zardous combustion prod-	:	Carbon oxides				
Sp od	ecific extinguishing meth- s	:	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			
	ecial protective equipment firefighters	:	Evacuate area. In the event of fire	e, wear self-contained breathing apparatus. ective equipment.			
6. ACC	IDENTAL RELEASE MEAS	SUF	RES				
tive	rsonal precautions, protec- e equipment and emer- ncy procedures	•	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).			

geney procedures	
Environmental precautions	: Avoid release to the environment. Prevent further leakage or spillage if safe to do so.



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		barriers). Retain and disp	ing over a wide area (e.g. by containment or oil pose of contaminated wash water. s should be advised if significant spillages ained.
	thods and materials for tainment and cleaning up	For large spills, ment to keep m be pumped, sto Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- laterial from spreading. If dyked material can bre recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- laterial, as well as those materials and items the cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.
7. HAN	LING AND STORAGE		
Тес	hnical measures		g measures under EXPOSURE ERSONAL PROTECTION section.
Loc	al/Total ventilation		tilation is unavailable, use with local exhaust
Adv	vice on safe handling	: Do not get on s Do not breathe Do not swallow Do not get in ey Wash skin thore Handle in accor practice, based sessment Keep container Do not eat, drin	mist or vapours. /es. oughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure as-
Cor	nditions for safe storage	: Keep in properl Store locked up Keep tightly clo	sed.
Mat	terials to avoid		ance with the particular national regulations. th the following product types: g agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	



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		exposure)	concentration	
Propan-2-ol	67-63-0	NAB	400 ppm	ID OEL
			983 mg/m3	
		PSD	500 ppm	ID OEL
			1,230 mg/m3	
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB	Internal
			2)	
	Further informa	ation: OTO		
betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
	Further informa	ation: 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 Filter type Hand protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	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 or laboratory coat.



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Hygie	ene measures	task being perfo posable suits) t Use appropriate contaminated c : If exposure to c eye flushing sys ing place. When using do Wash contamin The effective op engineering con appropriate deg	hemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. lated clothing before re-use. Deration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available



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Densi	ty	:	No data availab	le
	ility(ies) ater solubility	:	No data availab	le
	on coefficient: n-	:	Not applicable	
	ol/water gnition temperature	:	No data availab	le
Decor	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
	le characteristics le size	:	Not applicable	

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Not classified based on availal <u>Components:</u>	ble	information.
Propan-2-ol: Acute oral toxicity Acute inhalation toxicity	:	LD50 (Rat): > 5,000 mg/kg LC50 (Rat): > 25 mg/l



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			Exposure time: 6 Test atmosphere:	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 5	5,000 mg/kg
Meth	yl p-Hydroxybenzoate:			
Acute	e oral toxicity	:	LD50 (Rat, male): Method: OECD Te	
Genta	amicin:			
Acute	e oral toxicity	:	LD50 (Rat): 8,000) - 10,000 mg/kg
			LD50 (Mouse): 10),000 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 0.2 Exposure time: 4 Test atmosphere: Remarks: No mor	h
	e toxicity (other routes of nistration)	:	LD50 (Rat): 67 - 9 Application Route	
			LD50 (Rat): 371 - Application Route	
			LDLo (Monkey): 3 Application Route	
ll betar	nethasone:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
			LD50 (Mouse): > 4	4,500 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 0.4 m Exposure time: 4	
-	corrosion/irritation lassified based on availa	blo	information	
	ponents:	SIG		
	an-2-ol:			
Speci Resu	ies	:	Rabbit No skin irritation	
	yl p-Hydroxybenzoate:		Pabbit	
Speci Resu		:	Rabbit No skin irritation	



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	amicin:			
Speci Resu	ies It	:	Rabbit Mild skin irritatio	n
betar	nethasone:			
Speci Resu		:	Rabbit Mild skin irritatio	n
	ous eye damage/eye es serious eye irritatio		ion	
	ponents:	<i>л</i> п.		
Propa	an-2-ol:			
Speci Resu		:	Rabbit Irritation to eyes	, reversing within 21 days
	yl p-Hydroxybenzoa	te:		
Speci Resu	ies It	:	Rabbit No eye irritation	
Genta	amicin:			
Speci Resu		:	Rabbit Mild eye irritatior	n
betar	nethasone:			
Speci Resu		:	Rabbit No eye irritation	
Resp	iratory or skin sensi	itisatio	on	
-	sensitisation			
	lassified based on ava		information.	
-	lassified based on ava		information.	
Com	ponents:			
	an-2-ol:			
Test Expo	Гуре sure routes	:	Buehler Test Skin contact	
Speci		:	Guinea pig	
Metho Resu		:	OECD Test Guid negative	deline 406
Math	ul n Uudravuhan-aa	to:		
	yl p-Hydroxybenzoa -			

Test Type

: Maurer optimisation test



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	sure routes	:	Skin contact	
Speci		:	Guinea pig	ideline 106
Metho Resu		:	OECD Test Gu negative	Ideline 406
	i.	•	nogativo	
Genta	amicin:			
Rema	arks	:	No data availat	le
	nethasone:			
	sure routes	:	Dermal	
Speci Resu		:	Guinea pig Weak sensitize	r
i tesu	it i	•		
Germ	cell mutagenicity			
	lassified based on ava	ailable i	nformation.	
Com	ponents:			
	an-2-ol:		Test Type: Pee	torial reverse mutation accev (AMES)
Geno	toxicity in vitro	:	Result: negative	terial reverse mutation assay (AMES) e
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test e
Geno	toxicity in vivo	:	Test Type: Mar cytogenetic ass Species: Mouse	
				ite: Intraperitoneal injection
	yl p-Hydroxybenzoa	te:		
	toxicity in vitro			terial reverse mutation assay (AMES) Test Guideline 471 e
				omosome aberration test in vitro Test Guideline 473
Geno	toxicity in vivo	:	Species: Rat Application Rou	Test Guideline 478
	• . •			
	amicin:		Toot Turner In	tro mommolion cell cono mutation tast
Geno	toxicity in vitro	:	Result: negative	tro mammalian cell gene mutation test e



rsion)	Revision Date: 2024/07/06		S Number: 4794-00012	Date of last issue: 2024/04/06 Date of first issue: 2019/12/09
			Test Type: Chro Result: equivoca	mosome aberration test in vitro
Geno	toxicity in vivo		cytogenetic assa Species: Mouse	e: Intravenous injection
betar	nethasone:			
Geno	toxicity in vitro		Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vit Result: negative	ro mammalian cell gene mutation test
			Test Type: Chro Result: positive	mosome aberration test in vitro
Geno	toxicity in vivo		Test Type: Mam cytogenetic assa Species: Mouse Application Rou Result: equivoca	te: Oral
	cell mutagenicity -		Weight of evider cell mutagen.	nce does not support classification as a ger
Not c Com Propa Speci Applie	cation Route sure time	:	nformation. Rat inhalation (vapo 104 weeks OECD Test Guie	
Resu	lt amicin:	:	negative	
	nogenicity - Assess-	:	No data availabl	e
Repr	oductive toxicity			
May o	damage the unborn chi	ld.		
<u>Com</u>	ponents:			
	an-2-ol:			



Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Methyl p-Hydroxybenzoate: : Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Methyl p-Hydroxybenzoate: : Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Gentamicin: : Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Fertility: NOAEL: 20 mg/kg body weight Result: No significant adverse effects were reported Effects on foetal develop- : Test Type: Embryo-foetal development	Version 4.0	Revision Date: 2024/07/06		0S Number: 44794-00012	Date of last issue: 2024/04/06 Date of first issue: 2019/12/09
Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Methyl p-Hydroxybenzoate: : Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Methyl p-Hydroxybenzoate: : Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rabbit 					
ment Species: Rat Application Route: Ingestion Result: negative Methyl p-Hydroxybenzoate: Itest Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Effects on foetal development : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Gentamicin: : Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Fertility: NOAEL: 20 mg/kg body weight Result: No significant adverse effects were reported	Effects	on fertility	:	Species: Rat Application Route	
Effects on foetal development : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Result: negative Gentamicin: : Test Type: Two-generation reproduction toxicity study Species: Rat Fertility: NOAEL: 20 mg/kg body weight Result: No significant adverse effects were reported		on foetal develop-	:	Species: Rat Application Route	
Effects on foetal development : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative Result: negative Gentamicin: : Test Type: Two-generation reproduction toxicity study Species: Rat Fertility: NOAEL: 20 mg/kg body weight Result: No significant adverse effects were reported	Methv	l p-Hvdroxvbenzoate:			
Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Fertility: NOAEL: 20 mg/kg body weight Result: No significant adverse effects were reported	Effects		:	Species: Rabbit Application Route	
Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat Fertility: NOAEL: 20 mg/kg body weight Result: No significant adverse effects were reported	Genta	micin:			
Effects on foetal develop- : Test Type: Embryo-foetal development			:	Species: Rat Fertility: NOAEL:	20 mg/kg body weight
ment Species: Rabbit Developmental Toxicity: NOAEL: 3.6 mg/kg body weight Result: No embryo-foetal toxicity		on foetal develop-	:	Species: Rabbit Developmental To	oxicity: NOAEL: 3.6 mg/kg body weight
Test Type: Embryo-foetal development Species: Rat Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 75 mg/kg body weight Result: Embryo-foetal toxicity				Species: Rat Application Route Developmental To	: Intraperitoneal oxicity: LOAEL: 75 mg/kg body weight
Test Type: Embryo-foetal development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: foetal mortality, No malformations were observed.				Species: Mouse Application Route Developmental To	: Intraperitoneal oxicity: LOAEL: 10 mg/kg body weight
Test Type: Embryo-foetal development Species: Rat Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 50 mg/kg body weight Result: foetal mortality, No malformations were observed.				Species: Rat Application Route Developmental To	: Intraperitoneal oxicity: LOAEL: 50 mg/kg body weight
Reproductive toxicity - As- sessment:Positive evidence of adverse effects on development from human epidemiological studies.			:		•
betamethasone: Effects on foetal develop- : Species: Rabbit			:	Species: Rabbit	



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ment		I	Developmental	ute: Intramuscular Toxicity: LOAEL: 0.05 mg/kg body weight icity, Malformations were observed.
		/ 	Developmental	ute: Subcutaneous Toxicity: LOAEL: 0.42 mg/kg body weight nations were observed.
		/ 	Developmental	e ute: Intramuscular Toxicity: LOAEL: 1 mg/kg body weight nations were observed.
Repro sessn	oductive toxicity - As- nent		Clear evidence animal experim	of adverse effects on development, based ents.
STOT	- single exposure			
	assified based on avai	lable ir	formation.	
<u>Comp</u>	oonents:			
-	an-2-ol: ssment			
Asses	ssment		May cause dro	wsiness or dizziness.
STOT	- repeated exposure			
Cause	 repeated exposure damage to organs (I gland) through prolong 	Pituitar		
Cause renal	es damage to organs (l	Pituitar		
Cause renal <u>Com</u> t	es damage to organs (l gland) through prolong	Pituitar		
Cause renal <u>Comp</u> Genta Targe	es damage to organs (l gland) through prolong ponents:	Pituitar jed or r : : 0	epeated expos Kidney, inner e	ure.
Cause renal Comp Genta Targe Asses	es damage to organs (I gland) through prolong conents: amicin: et Organs	Pituitar jed or r : : 0	epeated expos Kidney, inner e Causes damag	ure.
Cause renal Comp Genta Targe Asses	es damage to organs (l gland) through prolong conents: amicin: et Organs asment	Pituitar jed or r : : (epeated expos Kidney, inner e Causes damag exposure. Pituitary gland,	ure. ar e to organs through prolonged or repeated
Cause renal Comp Genta Targe Asses betan Targe	es damage to organs (l gland) through prolong conents: amicin: et Organs ssment	Pituitar jed or r : : : :	epeated expos Kidney, inner e Causes damag exposure. Pituitary gland, Adrenal gland	ure. ar e to organs through prolonged or repeated
Cause renal Comp Genta Targe Asses betan Targe Asses	es damage to organs (l gland) through prolong conents: amicin: et Organs assment methasone: et Organs	Pituitar jed or r : : : :	epeated expos Kidney, inner e Causes damag exposure. Pituitary gland, Adrenal gland Causes damag	ure. ar e to organs through prolonged or repeated Immune system, muscle, thymus gland, Blo
Cause renal Comp Genta Targe Asses betan Targe Asses Repe	es damage to organs (l gland) through prolong <u>ponents:</u> amicin: et Organs ssment nethasone: et Organs ssment	Pituitar jed or r : : : :	epeated expos Kidney, inner e Causes damag exposure. Pituitary gland, Adrenal gland Causes damag	ure. ar e to organs through prolonged or repeated Immune system, muscle, thymus gland, Blo
Cause renal Comp Genta Targe Asses betan Targe Asses Repe <u>Comp</u>	es damage to organs (l gland) through prolong <u>conents:</u> amicin: et Organs ssment et Organs ssment ated dose toxicity	Pituitar jed or r : : : :	epeated expos Kidney, inner e Causes damag exposure. Pituitary gland, Adrenal gland Causes damag	ure. ar e to organs through prolonged or repeated Immune system, muscle, thymus gland, Blo
Cause renal Comp Genta Targe Asses betan Targe Asses Repe Comp Speci	es damage to organs (l gland) through prolong <u>conents:</u> amicin: et Organs ssment et Organs ssment ated dose toxicity <u>conents:</u> an-2-ol: es	Pituitar jed or r : : :	epeated expos Kidney, inner e Causes damag exposure. Pituitary gland, Adrenal gland Causes damag exposure.	ure. ar e to organs through prolonged or repeated Immune system, muscle, thymus gland, Blo
Cause renal Comp Genta Targe Asses betan Targe Asses Repe Comp Propa	es damage to organs (l gland) through prolong <u>conents:</u> amicin: et Organs ssment et Organs ssment ated dose toxicity <u>conents:</u> an-2-ol: es	Pituitar jed or r : : : :	epeated expos Kidney, inner e Causes damag exposure. Pituitary gland, Adrenal gland Causes damag exposure.	ar e to organs through prolonged or repeated Immune system, muscle, thymus gland, Blo e to organs through prolonged or repeated



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Speci NOAE LOAE Applic	EL EL cation Route sure time	te: : Rat : 250 mg/kg : 1,000 mg/kg : Ingestion : 28 Days : OECD Test Gu	ideline 407
Speci LOAE Applic Expos	EL cation Route sure time et Organs	: Dog : 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Saliv	ation
Expos		: Monkey : 50 mg/kg : Subcutaneous : 3 Weeks : Kidney, inner e	ar
Expo		: Monkey : 6 mg/kg : Intramuscular : 3 Weeks : Blood, Kidney,	inner ear, Liver
Expo	ΞL	: Rat : 5 mg/kg : 10 mg/kg : Intramuscular : 52 Weeks : Kidney, Blood	
Expo	ΞL	: Rat : 12.5 mg/kg : 50 mg/kg : Intramuscular : 13 Weeks : Kidney	
Speci LOAE Applic Expos		: Rabbit : 0.05 % : Skin contact : 10 - 30 d : Pituitary gland,	Immune system, muscle



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Spec	cies	:	Rat	
LÒAI		:	0.05 %	
Appli	cation Route		Skin contact	
	et Organs	:	8 Weeks thymus gland	
	Ū	•	anymae giana	
Spec		:	Mouse	
LOA	EL cation Route	÷	0.1 % Skin contact	
Ехро	sure time	÷	8 Weeks	
	et Organs	:	thymus gland	
Spec	sioc		Dog	
LOA		÷	0.05 mg/kg	
Appli	cation Route	:	Oral	
	sure time	:	28 d	
Targ	et Organs	:	Blood, thymus gl	and, Adrenal gland
Acni	ration toxiaity			
-	ration toxicity classified based on availa	hlo	information	
	erience with human exp			
		.000		
<u>Com</u>	ponents:			
Gent	amicin:			
Inges	stion	:	Target Organs: k	
			Target Organs: in	
			deafness	ness, Vertigo, hearing loss, tinnitus, fetal
n bota	mothacana		doumood	
Inhal	methasone:		Target Organs: A	drenal gland
	contact	÷		ness, pruritis, Irritation
			<i>,</i>	
12. ECOL	OGICAL INFORMATION	N		
Ecot	oxicity			
	-			
<u>Com</u>	ponents:			
Prop	an-2-ol:			
Τοχία	city to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 9,640 mg/l 6 h
	city to daphnia and other	:		nagna (Water flea)): > 10,000 mg/l
aqua	tic invertebrates		Exposure time: 2	4 n
Toxic	city to microorganisms	:	EC50 (Pseudome	onas putida): > 1,050 mg/l

Methyl p-Hydroxybenzoate:

Exposure time: 16 h



ersion .0	Revision Date: 2024/07/06		0S Number: 44794-00012	Date of last issue: 2024/04/06 Date of first issue: 2019/12/09
Toxicit	ty to fish	:	Exposure time: 9	tipes (Japanese medaka)): 59.5 mg/l 6 h rest Guideline 203
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia n Exposure time: 4 Method: ISO 634	
Toxicit plants	ty to algae/aquatic	:	ErC50 (Pseudoki mg/l Exposure time: 7 Method: ISO 869	
			EC10 (Pseudokir Exposure time: 7 Method: ISO 869	
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Danio rer Exposure time: 7	io (zebra fish)): 0.024 mg/l 0 d
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 0.2 mg/l 1 d est Guideline 211
Genta	micin:			
	ty to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): 86 mg/l 8 h rest Guideline 202
			LC50 (Americam Exposure time: 9 Method: US-EPA	
Toxicit plants	ty to algae/aquatic	:	Exposure time: 7	chneriella subcapitata (green algae)): 10 μ 2 h est Guideline 201
			µg/l Exposure time: 7	rchneriella subcapitata (green algae)): 1.5 2 h est Guideline 201
			Exposure time: 7	flos-aquae (cyanobacterium)): 4.7 μg/l 2 h est Guideline 201
			Exposure time: 7	a flos-aquae (cyanobacterium)): 1.6 μg/l 2 h est Guideline 201
M-Fac icity)	tor (Acute aquatic tox-	:	100	



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	ctor (Chronic aquatic	:	1	
	toxicity) Toxicity to microorganisms		EC50: 288.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD To	h ration inhibition
betan	nethasone:			
	ty to daphnia and other ic invertebrates	:	EC50 (Americamy Exposure time: 96	
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	
			mg/l Exposure time: 72 Method: OECD To	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD To	
			NOEC (Oryzias la Exposure time: 21 Method: OECD To	
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
M-Fac toxicit	ctor (Chronic aquatic y)	:	1,000	
Persis	stence and degradabil	ity		
Comp	oonents:			
Propa	an-2-ol:			
	gradability	:	Result: rapidly de	gradable
BOD/0	COD	:	BOD: 1,19 (BOD5 COD: 2,23 BOD/COD: 53 %	5)
Methy	/I p-Hydroxybenzoate:			
	gradability	:	Result: Readily bi Biodegradation: 8	



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			Exposure time: 28 Method: OECD T	3 d est Guideline 301B
	Gentamicin: Biodegradability		Result: rapidly de Biodegradation: Exposure time: 28 Method: OECD T	100 % 3 d
Bioa	accumulative potential			
<u>Con</u>	nponents:			
Part	pan-2-ol: ition coefficient: n- nol/water	:	log Pow: 0.05	
Part	hyl p-Hydroxybenzoate: ition coefficient: n- nol/water		log Pow: 1.98	
Part	Gentamicin: Partition coefficient: n- octanol/water		log Pow: < -2	
Part	betamethasone: Partition coefficient: n- octanol/water		log Pow: 2.11	
	bility in soil data available			
	er adverse effects data available			
13. DISP	OSAL CONSIDERATION	IS		
Disr	oosal methods			
-	ste from residues	:		waste into sewer.
Con	taminated packaging	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved ling site for recycling or disposal. If not otherwise specified: Dispose of as unused 		should be taken to an approved waste han- cling or disposal.
14. TRAN	NSPORT INFORMATION			
Inte	rnational Regulations			
UNF UN 1	RTDG number per shipping name	:	UN 3082 ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,



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			(betamethasone)	
Class		:	9	
Packin	g group	:	111	
Labels		:	9	
Enviro	nmentally hazardous	:	yes	
ΙΑΤΑ-Ι	OGR			
UN/ID	-	:	UN 3082	
Proper shipping name		:	Environmentally h (betamethasone)	nazardous substance, liquid, n.o.s.
Class		:	9	
Packin	g group	:	111	
Labels			Miscellaneous	
Packin aircraft	g instruction (cargo	:	964	
Packin ger aire	g instruction (passen-	:	964	
Enviro	nmentally hazardous	:	yes	
IMDG-	Code			
UN nui		:	UN 3082	
Proper	shipping name	:	ENVIRONMENT	ALLY HAZARDOUS SUBSTANCE, LIQUID,
·			N.O.S.	
			(betamethasone)	
Class		:	9	
Packin	g group	:	III	
Labels		:	9	
EmS C	ode	:	F-A, S-F	
Marine	pollutant	:	yes	

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

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered

: Not applicable



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Gove stand	_	o. 74 of	f 2001 on the M	lana	iger	ment of Hazardous and Toxic Sub-
Haza	rdous substances appro	oved fo	r use		:	Propan-2-ol
Prohi	bited substances				:	Not applicable
Restr	icted substances				:	Not applicable
Regu Mate		of Trac	le No. 7 of 2022	2 on	Dis	stribution and Control of Hazardous
	Type of hazardous materials subject to distribution and control, Annex I				:	Not applicable
	Type of hazardous materials subject to distribution and control, Annex II					Not applicable
The c	components of this pro	oduct	are reported in	the	fol	lowing inventories:
AICS	•		ot determined			5
DSL		: n	ot determined			
IECS	С	: n	ot determined			
16. OTHE	R INFORMATION					
Revis	sion Date	: 2	2024/07/06			
Sourc	ner information ces of key data used to vile the Safety Data t	е		earch	n res	data from raw material SDSs, OECD sults and European Chemicals Agen- u/
Items	where changes have b	een m	ade to the previo	ous	vers	sion are highlighted in the body of this

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

Date format	:	yyyy/mm/dd
Full text of other abbreviatio	ns	
ACGIH ACGIH BEI ID OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Indonesia. Occupational Exposure Limits
ACGIH / TWA ACGIH / STEL ID OEL / NAB ID OEL / PSD	:	8-hour, time-weighted average Short-term exposure limit Long term exposure limit 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



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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.

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