

Betamethasone / Gentamicin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

: Betamethasone / Gentamicin Formulation Product name

Manufacturer or supplier's details							
Company name of supplier	:	MSD					
Address	:	126 E. Lincoln Avenue					
		Rahway, New Jersey U.S.A. 07065					
Telephone	:	908-740-4000					
Emergency telephone	:	1-908-423-6000					
E-mail address	:	EHSDATASTEWARD@msd.com					
Recommended use of the chemical and restrictions on use							

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage/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			

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: 🛆

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/ face protection.
		Response:



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		for several min to do. Continue P308 + P313 II attention.	utes. Remove con e rinsing. F exposed or conc	: Rinse cautiously with water tact lenses, if present and easy erned: Get medical advice/ ists: Get medical advice/ atten-
		Storage: P405 Store loc	ked up.	
		Disposal: P501 Dispose posal plant.	of contents/ contai	ner to an approved waste dis-
•	e r hazards e known.			
SECTION	3. COMPOSITION/IN	FORMATION ON ING	REDIENTS	
Subs	stance / Mixture	: Mixture		
Corr	ponents			
Che	mical name		CAS-No.	Concentration (% w/w)
Prop	an-2-ol		67-63-0	>= 10 -< 20

Propan-2-ol	67-63-0	>= 10 -< 20
Methyl p-Hydroxybenzoate	99-76-3	>= 1 -< 5
Gentamicin	1403-66-3	< 0.1
Betamethasone	378-44-9	>= 0.01 -< 0.1

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 exposure.



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Protection of first-aiders Notes to physician		:	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	CTION 5	. FIRE-FIGHTING ME	ASL	JRES	
Suitable extinguishing media		:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuita media	able extinguishing	:	None known.	
	Specific hazards during fire		:	Exposure to com	oustion products may be a hazard to health.
	fighting Hazardous combustion prod- ucts		:	Carbon oxides	
	Specific extinguishing meth- ods		:	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
	Special protective equipment for fire-fighters		:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.
SEC	SECTION 6. ACCIDENTAL RELEASE			E MEASURES	
	Personal precautions, protec- : tive equipment and emer- gency procedures		Follow safe handl	tective equipment. ing advice (see section 7) and personal tent 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.
		determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.



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SECTION 7. HANDLING AND STORAGE **Technical measures** • See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust Local/Total ventilation : ventilation. Do not get on skin or clothing. Advice on safe handling : Do not breathe mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. Hygiene measures If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. Conditions for safe storage Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations. Do not store with the following product types: Materials to avoid Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components CAS-No. Value type Control parame-Basis (Form of ters / Permissible exposure) concentration 67-63-0 Propan-2-ol VLE-PPT 200 ppm NOM-010-STPS-2014 VLE-CT NOM-010-400 ppm STPS-2014 TWA 200 ppm ACGIH STEL 400 ppm ACGIH

Ingredients with workplace control parameters



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	Gentar	micin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal
			Further inform	ation: OTO	, ,	
	Betam	ethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
	Ĩ		Further inform	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	MX BEI
		Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI
Engineering measures	des pro Ess Uso If h cat	sign and opera tect products, sentially no op e closed proce andled in a lat pinet, fume hoo	ated in accord workers, and en handling essing syster poratory, use pod, or other of or aerosoliza	dance with d the envirc permitted. ns or conta a properly containmen tion. If this j	inment techno designed bios t device if the potential does	logies. safety
Personal protective equation Respiratory protection Filter type Hand protection	: If a exp rec	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type				e the
Material	: Ch	emical-resista	nt gloves			
Remarks Eye protection Skin and body protection	: We If th mis We pot aer : Wo Add tas dis	ts or aerosols ar a faceshield ential for direct osols. rk uniform or l ditional body g k being perfore posable suits)	ses with side nment or ac , wear the ap d or other ful t contact to t aboratory co parments sho med (e.g., sl to avoid exp degowning te	tivity involve opropriate g Il face prote the face wit bat. buld be use eevelets, a bosed skin s	es dusty condi goggles. ection if there is h dusts, mists d based upon pron, gauntlets	s a , or the s,



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SECTIO	ON 9. PHYSICAL AND CHE	ΞΜΙΟ		S
Ар	pearance	:	liquid	
Co	lor	:	No data available	e
Od	lor	:	No data available	e
Od	lor Threshold	:	No data available	e
pН		:	No data available	e
Me	elting point/freezing point	:	No data available	e
	tial boiling point and boiling nge	:	No data available	e
Fla	ash point	:	No data available	9
Ev	aporation rate	:	No data available	9
Fla	ammability (solid, gas)	:	Not applicable	
Fla	ammability (liquids)	:	No data available	9
	per explosion limit / Upper mmability limit	:	No data available	e
	wer explosion limit / Lower mmability limit	:	No data available	9
Va	por pressure	:	No data available	e
Re	lative vapor density	:	No data available	9
Re	lative density	:	No data available	9
De	nsity	:	No data available	9
So	lubility(ies) Water solubility	:	No data available	e
	rtition coefficient: n-	:	Not applicable	
	tanol/water toignition temperature	:	No data available	e
De	composition temperature	:	No data available	e
Vis	scosity Viscosity, kinematic	:	No data available	e
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.



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Moleo	cular weight	: No data	a available
	ele characteristics le size	: Not app	blicable
ECTION	10. STABILITY AND R	EACTIVITY	
Possi tions Condi Incom	nical stability bility of hazardous reac- itions to avoid npatible materials rdous decomposition	: Stable : Can rea : None k : Oxidizir	ssified as a reactivity hazard. under normal conditions. act with strong oxidizing agents. nown. ng agents ardous decomposition products are known.
CTION	11. TOXICOLOGICAL	NFORMATIC	ON
Inhala		·	
Inhala Skin o Inges Eye c Acute	ation contact		
Inhala Skin o Inges Eye c Acute Not cl	ation contact tion contact e toxicity lassified based on availa	ble information	
Inhala Skin o Inges Eye c Acute Not cl <u>Produ</u> Acute	ation contact tion contact e toxicity lassified based on availa	ble information	on. oxicity estimate: > 5,000 mg/kg
Inhala Skin o Inges Eye c Acute Not cl Produ Acute	ation contact tion e toxicity lassified based on availa <u>uct:</u> e oral toxicity	ble information	on. oxicity estimate: > 5,000 mg/kg
Inhala Skin o Inges Eye c Acute Not cl <u>Produ</u> Acute	ation contact tion e toxicity lassified based on availa <u>uct:</u> e oral toxicity	able information : Acute to Method:	on. oxicity estimate: > 5,000 mg/kg
Inhala Skin o Inges Eye c Acute Not cl Produ Acute	ation contact tion eontact e toxicity lassified based on availa <u>uct:</u> e oral toxicity <u>ponents:</u> an-2-ol:	ble information : Acute to Method: : LD50 (R : LC50 (R Exposur	on. oxicity estimate: > 5,000 mg/kg Calculation method
Inhala Skin o Inges Eye c Acute Not cl Produ Acute Acute Acute	ation contact tion eontact e toxicity lassified based on availa <u>uct:</u> e oral toxicity ponents: an-2-ol: e oral toxicity	ble information Acute to Method: LD50 (R Exposur Test atm	on. exicity estimate: > 5,000 mg/kg Calculation method Rat): > 5,000 mg/kg Rat): > 25 mg/l re time: 6 h
Inhala Skin o Inges Eye c Acute Not cl Produ Acute Acute Acute	ation contact tion contact e toxicity lassified based on availa <u>uct:</u> e oral toxicity conents: an-2-ol: e oral toxicity e inhalation toxicity	Ible information : Acute to Method: : LD50 (R : LC50 (R Exposur Test atm : LD50 (R	on. exicity estimate: > 5,000 mg/kg Calculation method Rat): > 5,000 mg/kg Rat): > 25 mg/l re time: 6 h hosphere: vapor
Inhala Skin o Inges Eye c Acute Not cl Produ Acute Acute Acute Acute	ation contact tion contact e toxicity lassified based on availa <u>uct:</u> e oral toxicity conents: an-2-ol: e oral toxicity e inhalation toxicity	able information : Acute to Method: : LD50 (R : LC50 (R Exposur Test atm : LD50 (R : LD50 (R	on. exicity estimate: > 5,000 mg/kg Calculation method Rat): > 5,000 mg/kg Rat): > 25 mg/l re time: 6 h hosphere: vapor
Inhala Skin o Inges Eye c Acute Not cl Produ Acute Acute Acute Acute Acute	ation contact tion contact e toxicity lassified based on availa <u>uct:</u> e oral toxicity conents: an-2-ol: e oral toxicity e inhalation toxicity e dermal toxicity yl p-Hydroxybenzoate:	able information : Acute to Method: : LD50 (R : LC50 (R Exposur Test atm : LD50 (R : LD50 (R	on. exicity estimate: > 5,000 mg/kg Calculation method Rat): > 5,000 mg/kg Rat): > 25 mg/l re time: 6 h hosphere: vapor Rabbit): > 5,000 mg/kg Rat, male): 2,100 mg/kg
Inhala Skin o Inges Eye o Acute Not ol Produ Acute Acute Acute Acute Acute	ation contact tion contact e toxicity lassified based on availa <u>uct:</u> e oral toxicity conents: an-2-ol: e oral toxicity e inhalation toxicity e dermal toxicity yl p-Hydroxybenzoate: e oral toxicity	able information : Acute to Method: : LD50 (R : LC50 (R Exposur Test atm : LD50 (R : LD50 (R Method:	on. exicity estimate: > 5,000 mg/kg Calculation method Rat): > 5,000 mg/kg Rat): > 25 mg/l re time: 6 h hosphere: vapor Rabbit): > 5,000 mg/kg Rat, male): 2,100 mg/kg



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F	cute inhalation toxicity	:	LC50 (Rat): > 0.2 Exposure time: 4 Test atmosphere: Remarks: No mor	h
	Acute toxicity (other routes of dministration)	:	LD50 (Rat): 67 - 9 Application Route	
			LD50 (Rat): 371 - Application Route	
			LDLo (Monkey): 3 Application Route	
	Betamethasone:			
	cute oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
			LD50 (Mouse): > 4	4,500 mg/kg
Þ	cute inhalation toxicity	:	LC50 (Rat): 0.4 m Exposure time: 4	
١	ikin corrosion/irritation lot classified based on availa Components:	ble	information.	
F	Propan-2-ol:			
	Species Result	:	Rabbit No skin irritation	
N	lethyl p-Hydroxybenzoate:			
	Species Result	:	Rabbit No skin irritation	
	Gentamicin: Species		Rabbit	
	Result	:	Mild skin irritation	
E	Betamethasone:			
	Species Result	:	Rabbit Mild skin irritation	
	Serious eye damage/eye irri Causes serious eye irritation.	itati	on	
	Components:			
	Propan-2-ol:			
	pecies	:	Rabbit	



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Resul	t	: Irritation to eyes, reversing within 21 days
Methy	yl p-Hydroxybenzoa	te:
Speci	es	: Rabbit
Resul	t	: No eye irritation
Genta	amicin:	
Speci	es	: Rabbit
Resul	t	: Mild eye irritation
Betar	nethasone:	
Speci		: Rabbit
Resul	t	: No eye irritation
Resp	iratory or skin sens	tization
Skin s	sensitization	
Not cl	assified based on av	ailable information.
Resp	iratory sensitization	
-	assified based on av	
Comp	oonents:	
	an-2-ol:	
Test T	уре	: Buehler Test
Route Speci	es of exposure	: Skin contact
Metho		: Guinea pig : OECD Test Guideline 406
Resul		: negative
Methy	yl p-Hydroxybenzoa	te:
		: Maurer optimisation test
Route	Гуре es of exposure	: Skin contact
Speci	es	: Guinea pig
Metho		: OECD Test Guideline 406
Resul	t	: negative
Genta	amicin:	
Rema	ırks	: No data available
Betar	nethasone:	
Route	s of exposure	: Dermal
Speci	es	: Guinea pig
Resul	t	: Weak sensitizer
Germ	cell mutagenicity	



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Com	ponents:			
Prop	an-2-ol:			
	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
Genc	otoxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) e: Intraperitoneal injection
Meth	yl p-Hydroxybenzoate	:		
Geno	otoxicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
				nosome aberration test in vitro est Guideline 473
Genc	otoxicity in vivo	:	Species: Rat Application Route	nt dominant lethal test (germ cell) (in vivo) e: Ingestion est Guideline 478
II Gent	amicin:			
Geno	otoxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: equivocal	nosome aberration test in vitro
Geno	otoxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) e: Intravenous injection
Beta	methasone:			
Genc	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: positive	nosome aberration test in vitro
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Geno	toxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: equivocal	
	i cell mutagenicity - ssment	:	Weight of evidenc cell mutagen.	ce does not support classification as a germ
Carci	inogenicity			
Not c	lassified based on availa	able	information.	
Com	ponents:			
Propa	an-2-ol:			
Speci		:	Rat	
	cation Route sure time	:	inhalation (vapor) 104 weeks	
Metho		÷	OECD Test Guide	eline 451
Resu	lt	:	negative	
Gent	amicin:			
	nogenicity - Assess-	:	No data available	
Repr	oductive toxicity			
	damage the unborn child	Ι.		
Com	ponents:			
	an-2-ol:			
	ts on fertility		Test Type: Two-a	eneration reproduction toxicity study
Liioo		•	Species: Rat Application Route Result: negative	
Effect	ts on fetal development	:	Test Type: Embry	vo-fetal development
			Species: Rat	
			Application Route Result: negative	: Ingestion
			0	
	yl p-Hydroxybenzoate:			
Effect	ts on fetal development	:		vo-fetal development
			Species: Rabbit Application Route Result: negative	: Ingestion
Genta	amicin:			
Effect	ts on fertility	:	Species: Rat Fertility: NOAEL:	eneration reproduction toxicity study 20 mg/kg body weight cant adverse effects were reported



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Effects on fetal development		:	Species: Rabbit	vo-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 To	vo-fetal development :: Intraperitoneal oxicity: LOAEL: 10 mg/kg body weight tality., No malformations were observed.
			Species: Rat Application Route Developmental To	vo-fetal development :: Intraperitoneal oxicity: LOAEL: 50 mg/kg body weight tality., No malformations were observed.
Repro sessn	oductive toxicity - As- nent	:	Positive evidence human epidemiol	of adverse effects on development from ogical studies.
Betar	nethasone:			
Effect	ts on fetal development	:		e: Intramuscular oxicity: LOAEL: 0.05 mg/kg body weight ty., Malformations were observed.
				e: Subcutaneous oxicity: LOAEL: 0.42 mg/kg body weight iions were observed.
				: Intramuscular oxicity: LOAEL: 1 mg/kg body weight ions were observed.
Repro sessn	oductive toxicity - As- nent	:	Clear evidence of animal experimer	adverse effects on development, based on tts.
	-single exposure lassified based on availa	able	information.	
	ponents:			
-	an-2-ol:			
Asses	ssment	:	May cause drows	iness or dizziness.



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STOT	-repeated exposure	•	
Cause	es damage to organs	(Pituitary gland, Immu	ne system, muscle, thymus gland, Blood, Ad-
renal	gland) through prolo	nged or repeated expos	ure.
<u>Comp</u>	<u>oonents:</u>		
Genta	amicin:		
	et Organs	: Kidney, inner e	
Asses	ssment	: Causes damag exposure.	e to organs through prolonged or repeated
Betan	methasone:		
Targe	et Organs		Immune system, muscle, thymus gland, Bloo
Asses	ssment	Adrenal gland : Causes damag exposure.	e to organs through prolonged or repeated
Repe	ated dose toxicity		
Comp	ponents:		
Propa	an-2-ol:		
Speci	es	: Rat	
NOAE		: 12.5 mg/l	、 、
	cation Route sure time	: inhalation (vap : 104 Weeks	or)
Methy	yl p-Hydroxybenzoa	to-	
Speci		: Rat	
NOAE	EL	: 250 mg/kg	
LOAE		: 1,000 mg/kg	
Applic	cation Route	: Ingestion : 28 Days	
Metho	sure time od	: OECD Test Gu	ideline 407
Genta	amicin:		
	es	: Dog	
Speci LOAE	es EL	: Dog : 3 mg/kg	
Speci LOAE Applic	L cation Route	: 3 mg/kg : Intramuscular	
Speci LOAE Applic Expos	L cation Route sure time	: 3 mg/kg : Intramuscular : 12 Months	
Speci LOAE Applic Expos Targe	L cation Route sure time t Organs	: 3 mg/kg : Intramuscular : 12 Months : Kidney	ation
Speci LOAE Applic Expos Targe Symp	L cation Route sure time et Organs toms	: 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Saliv	ation
Speci LOAE Applic Expos Targe Symp	EL cation Route sure time et Organs toms es	: 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Saliv : Monkey	ation
Speci LOAE Applic Expos Targe Symp Speci LOAE	EL cation Route sure time et Organs toms es EL	: 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Saliv : Monkey : 50 mg/kg	ation
Speci LOAE Applic Expos Targe Symp Speci LOAE Applic	EL cation Route sure time et Organs toms es EL cation Route	: 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Saliv : Monkey : 50 mg/kg : Subcutaneous	ation
Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos	EL cation Route sure time et Organs toms es EL	: 3 mg/kg : Intramuscular : 12 Months : Kidney : Vomiting, Saliv : Monkey : 50 mg/kg	
Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe	EL cation Route sure time et Organs toms es EL cation Route sure time et Organs	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Saliv Monkey 50 mg/kg Subcutaneous 3 Weeks Kidney, inner e 	
Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe	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, Saliv Monkey 50 mg/kg Subcutaneous 3 Weeks Kidney, inner e Monkey 6 mg/kg 	
Speci LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Targe	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, Saliv Monkey 50 mg/kg Subcutaneous 3 Weeks Kidney, inner e Monkey 	



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	sure time t Organs	: 3 Weeks : Blood, Kidney, inner ear, Liver
Expos	EL	 Rat 5 mg/kg 10 mg/kg Intramuscular 52 Weeks Kidney, Blood
Expos	EL	: Rat : 12.5 mg/kg : 50 mg/kg : Intramuscular : 13 Weeks : Kidney
Betan	nethasone:	
Expos		 Rabbit 0.05 % Skin contact 10 - 30 d Pituitary gland, Immune system, muscle
Expos		 Rat 0.05 % Skin contact 8 Weeks thymus gland
Expos	es L cation Route sure time t Organs	 Mouse 0.1 % Skin contact 8 Weeks thymus gland
Expos		: Dog : 0.05 mg/kg : Oral : 28 d : Blood, thymus gland, Adrenal gland
•	ation toxicity assified based on ava	ilable information.
Exper	rience with human e	cposure
<u>Comp</u>	oonents:	
Genta	amicin: tion	: Target Organs: Kidney Target Organs: inner ear Symptoms: Dizziness, Vertigo, hearing loss, tinnitus, fetal deafness



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Inhala	nethasone: ation contact	:	Target Organs: Adrenal gland Symptoms: Redness, pruritis, Irritation						
SECTION 12. ECOLOGICAL INFORMATION									
Ecotoxicity									
Com	oonents:								
Propa	an-2-ol:								
Toxic	ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 9,640 mg/l 5 h					
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10,000 mg/l ⊦h					
Тохіс	ity to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1,050 mg/l 5 h					
II Meth	yl p-Hydroxybenzoate:								
	ity to fish	:	LC50 (Oryzias lat Exposure time: 96 Method: OECD Te						
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: ISO 634						
Toxic plants	ity to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: ISO 8692						
			EC10 (Pseudokiro Exposure time: 72 Method: ISO 8692						
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Danio reri Exposure time: 70	o (zebra fish)): 0.024 mg/l) d					
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	nagna (Water flea)): 0.2 mg/l d est Guideline 211					
Genta	amicin:								
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te						
			LC50 (Americamy Exposure time: 96 Method: US-EPA	5 h					



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	Toxicity to algae/aquatic plants		EC50 (Pseudokirchneriella subcapitata (green algae)): 10 μg/l Exposure time: 72 h Method: OECD Test Guideline 201		
			NOEC (Pseudokin µg/l Exposure time: 72 Method: OECD T		
			EC50 (Anabaena Exposure time: 72 Method: OECD T		
			NOEC (Anabaena Exposure time: 72 Method: OECD T		
Toxic	ity to microorganisms	:	EC50: 288.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD T	h ration inhibition	
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	rchneriella subcapitata (green algae)): 34 2 h est Guideline 201 city at the limit of solubility.	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD T		
			NOEC (Oryzias la Exposure time: 2' Method: OECD T		
	ity to daphnia and other ic invertebrates (Chron- icity)		NOEC (Daphnia r Exposure time: 21 Method: OECD T		



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Persi	istence and degradabili	ty					
Com	ponents:						
Prop	an-2-ol:						
Biode	egradability	:	Result: rapidly degradable				
BOD/	'COD	:	BOD: 1,19 (BOD5) COD: 2,23 BOD/COD: 53 %				
Meth	yl p-Hydroxybenzoate:						
Biode	egradability	:	Result: Readily bi Biodegradation: 2 Exposure time: 28 Method: OECD T	89 %			
Gent	amicin:						
Biode	egradability	:	Result: rapidly degradable Biodegradation: 100 % Exposure time: 28 d Method: OECD Test Guideline 314				
Bioa	ccumulative potential						
Com	ponents:						
Prop	an-2-ol:						
	ion coefficient: n- ol/water	:	log Pow: 0.05				
Meth	yl p-Hydroxybenzoate:						
	ion coefficient: n- iol/water	:	log Pow: 1.98				
Gent	amicin:						
	ion coefficient: n- iol/water	:	log Pow: < -2				
Beta	methasone:						
	ion coefficient: n- iol/water	:	log Pow: 2.11				
	lity in soil ata available						
Othe	r adverse effects						
No da	ata available						

Disposal methods

Waste from residues

: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.



ersion 0	Revision Date: 06.07.2024	SDS Number:Date of last issue: 06.04.20245344797-00011Date of first issue: 09.12.2019					
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. 					
ECTION 1	4. TRANSPORT INF	DRMATION					
Interna	ational Regulations						
UNRT							
UN nu		: UN 3082					
·	shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQI N.O.S. (betamethasone)	UIC				
Class		: 9					
	ig group	:					
Labels		: 9					
Enviro	nmentally hazardous	: yes					
IATA-I							
UN/ID		: UN 3082					
Proper	shipping name	: Environmentally hazardous substance, liquid, n.o.s.					
Class		(Betamethasone)					
Class	g group	: 9 : III					
Labels		: Miscellaneous					
	g instruction (cargo	: 964					
ger air		: 964					
Enviro	nmentally hazardous	: yes					
IMDG-	Code						
UN nu		: UN 3082					
Proper	shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQI N.O.S.	UIE				
Class		(Betamethasone) : 9					
	g group	· •					
Labels		: 9					
EmS C	Code	: F-A, S-F					
Marine	e pollutant	: yes					
Trans	oort in bulk accordin	g to Annex II of MARPOL 73/78 and the IBC Code					
-	plicable for product as	-					
Dome	stic regulation						
NOM-(002-SCT						
UN nu		: UN 3082					
	shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQI N.O.S.	UIE				
Class		(Betamethasone) : 9					
01055							
Packin	a aroun	:					



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Special precautions for user

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

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors,	:	Not applicable
essential chemical products and machinery for		
producing capsules, tablets and pills.		

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

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

SECTION 16. OTHER INFORMATION

Revision Date Date format	:	06.07.2024 dd.mm.yyyy			
Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)			
MX BEI	:	Official Mexican Norm NOM-047-SSA1-2011, Environmental			
		Health - Biological exposure indices for workers occupational-			
		ly exposed to chemical agents			
NOM-010-STPS-2014	:	Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting			
		the Work Environment - Identification, Assessment and Con-			
		trol - Appendix 1 Occupational Exposure Limits			
ACGIH / TWA	:	8-hour, time-weighted average			
ACGIH / STEL	:	Short-term exposure limit			
NOM-010-STPS-2014 / VLE-	:	Time weighted average limit value			
PPT					
NOM-010-STPS-2014 / VLE- CT	:	Short term exposure limit value			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory con-



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centration; 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

Sources of key data used to	:	Internal technica
compile the Material Safety		eChem Portal se
Data Sheet		cy, http://echa.e

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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