

Version 2.9	Revision Date: 12.12.2023		S Number: 43098-00012	Date of last issue: 30.09.2023 Date of first issue: 20.07.2017			
SECTIO	ON 1. IDENTIFICATION						
Pro	Product name		Dexamethasone	Formulation			
Ot	Other means of identification		DEXAFORT AQUEOUS SUSPENSION OF DEXAMETHASONE AS MIXED ESTERS (37231)				
Ма	anufacturer or supplier's o	deta	ils				
Co	mpany	:	MSD				
Ad	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP				
Те	lephone	:	908-740-4000				
En	Emergency telephone		1-908-423-6000				
E-I	mail address	:	: EHSDATASTEWARD@msd.com				
Re	Recommended use of the ch		ical and restriction	ons on use			
	commended use estrictions on use	:	Veterinary produ Not applicable	ict			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity	:	Category 1B
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H360D May damage the unborn child. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protec-



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		tion/ face prote	ection.		

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	1,04
Dexamethasone	50-02-2	0,3

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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	
Most important symptoms and effects, both acute and delayed	:	May damage the unborn child.
Protection of first-aiders	:	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).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES



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Suitable extinguishing media		:	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical				
Unsuitable media	extinguishing	:	None known.				
Specific ha fighting	zards during fire	:	Exposure to comb	oustion products may be a hazard to health.			
Hazardous ucts	combustion prod-	:	Carbon oxides Metal oxides				
Specific ex ods	tinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do			
Special pro for fire-fight	tective equipment ters	:		e, wear self-contained breathing apparatus. ective equipment.			
SECTION 6. AC	CIDENTAL RELE	ASE	EMEASURES				
	recautions, protec- nent and emer- edures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).			
Environme	ntal precautions	:	Prevent spreading oil barriers). Retain and dispos	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			
	nd materials for nt and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng 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 egulations are applicable. 5 of this SDS provide information regarding tional requirements.			

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE
		CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.

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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 industrial hygiene and safet practice, based on the results of the workplace exposure assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to th environment. 			
Conditions for safe storage		: Keep in properly labeled containers. Store locked up. Keep tightly closed.			
Materials to avoid		 Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases 			

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		
Dexamethasone	50-02-2	TWA	10 µg/m3 (OEB 3)	Internal		
	Further information: Skin					
		Wipe limit	100 µg/100 cm ²	Internal		

Engineering measures		Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation.	
Personal protective equipm	ent		
Respiratory protection :		adequate local exhaust ventilation is not available or sposure assessment demonstrates exposures outside the commended guidelines, use respiratory protection. ombined particulates and organic vapor type nemical-resistant gloves noose gloves to protect hands against chemicals depending in the concentration specific to place of work. Breakthrough ne is not determined for the product. Change gloves often!	
Filter type	:	Combined particulates and organic vapor type	
Hand protection			
Material	:	Chemical-resistant gloves	
		5	
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.	
Eye protection	:	Wear the following personal protective equipment: Safety glasses	



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	and body protection	resistance data potential. Skin contact mi clothing (gloves : If exposure to c	ate protective clothing based on chemical and an assessment of the local exposure ust be avoided by using impervious protective s, aprons, boots, etc). chemical is likely during typical use, provide stems and safety showers close to the
		working place. When using do	not eat, drink or smoke. nated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	white to off-white
Odor Threshold	:	No data available
рН	:	7,0 - 7,8
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available



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	sity scosity, kinematic sive properties	:	No data available Not explosive	9
	zing properties cular weight	:	The substance o	r mixture is not classified as oxidizing.
	le size	:	No data available	-

SECTION 10. STABILITY AND REACTIVITY

:	Not classified as a reactivity hazard.
:	Stable under normal conditions.
:	Can react with strong oxidizing agents.
:	None known.
:	Oxidizing agents
:	No hazardous decomposition products are known.
	:

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on availa	ble	information.
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:		
Benzyl alcohol:		
Acute oral toxicity	:	LD50 (Rat): 1.620 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 4,178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

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Acute	e oral toxicity	:	LD50 (Rat): > 2.0	00 mg/kg
			LD50 (Mouse): >	6.500 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 14 ma Application Route	
Skin	corrosion/irritation			
Not c	classified based on availa	ble	information.	
<u>Com</u>	ponents:			
Benz	yl alcohol:			
Spec Meth Resu	od	: : :	Rabbit OECD Test Guide No skin irritation	eline 404
Dexa	methasone:			
Spec Resu		:	Rabbit Mild skin irritation	
	bus eye damage/eye irri classified based on availa			
<u>Com</u>	ponents:			
Benz	yl alcohol:			
Spec Resu		:	Rabbit Irritation to eves	reversing within 21 days
Meth		:	OECD Test Guide	
Dexa	methasone:			
Spec Resu		:	Rabbit Mild eye irritation	
Resp	piratory or skin sensitiz	atio	n	
	sensitization	ble	information.	
-	biratory sensitization classified based on availa	ıble	information.	
<u>Com</u>	ponents:			
Benz	yl alcohol:			
Test		:	Maximization Tes	t
Route Spec	es of exposure lies	÷	Skin contact Guinea pig	
Meth	od	:	OECD Test Guide	eline 406
Resu	IIL	÷	negative	

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Germ	cell mutagenicity			
Not cla	assified based on availa	able	information.	
Comp	onents:			
Benzy	l alcohol:			
Genote	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Genoto	oxicity in vivo	:	cytogenetic assa Species: Mouse	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection
Dexan	nethasone:			
Genote	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: in vitr Test system: mo Result: negative	o test use lymphoma cells
Genoto	oxicity in vivo	:	Test Type: Micro Species: Mouse Application Route Result: negative	
	logenicity assified based on availa	able	information.	
<u>Comp</u>	onents:			
Benzv	l alcohol:			
Specie		:	Mouse	
	ation Route ure time	:	Ingestion 103 weeks	
Metho	d	÷	OECD Test Guid	eline 451
Result		:	negative	
-	ductive toxicity amage the unborn child	4		
-	onents:			
	l alcohol:			
-	s on fertility	:	Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials



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			Application Rou Result: negative	
Dexar	nethasone:			
Effects	s on fetal development	:	Developmental	
			Developmental	te: Intramuscular Toxicity: NOAEL: 0,025 mg/kg body weight developmental abnormalities.
			Developmental	te: Intramuscular Toxicity: LOAEL: >= 0,062 mg/kg body weig developmental abnormalities.
			Developmental	te: Subcutaneous Toxicity: LOAEL: >= 0,02 mg/kg body weigh and visceral variations ., Retardations.
Repro sessm	ductive toxicity - As- ient	:	May damage the	e unborn child.
	-single exposure assified based on avail	able	information.	
	-repeated exposure assified based on avail	ahle	information	
	onents:	abie		
Route: Target	nethasone: s of exposure t Organs sment	:		mmune system, thymus gland age to organs through prolonged or repeate
Repea	ated dose toxicity			
<u>Comp</u>	onents:			
Benzy	/l alcohol:			
Specie NOAE Applic	es EL ation Route sure time	:	Rat 1,072 mg/l inhalation (dust/ 28 Days OECD Test Guid	

Dexamethasone:



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NO Apr Exp Tar	ecies AEL blication Route posure time get Organs marks	: Rat : 0,0015 mg/kg : Oral : 7 d : Liver : Significant toxic	ity observed in testing
LÖ, App Exp Tar	ecies AEL blication Route bosure time get Organs marks		gland, thymus gland ity observed in testing
LÖ App Exp Tar	ecies AEL blication Route bosure time get Organs marks	: Rat : 0,125 mg/kg : Oral : 6 Weeks : Adrenal gland : Significant toxic	ity observed in testing
LÖ, Apr Exp Tar	ecies AEL blication Route bosure time get Organs marks	: Rat : 0,4 mg/kg : Oral : 3 Months : Immune system : Significant toxic	n ity observed in testing
LÖ App Exp Tar	ecies AEL olication Route oosure time get Organs marks	: Dog : 8 mg/kg : Oral : 3 Months : Immune system : Significant toxic	n ity observed in testing

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Dexamethasone:

Ingestion

: Target Organs: Immune system Target Organs: Adrenal gland Target Organs: Bone Symptoms: muscle weakness

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Benzyl alcohol:



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	Toxicity	to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Dexam	ethasone:			
	Toxicity	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
		or (Chronic aquatic	:	1	
	toxicity) Toxicity	to microorganisms	:	EC50: > 1.000 mg Exposure time: 3 I Test Type: Respir Method: OECD Te	n ation inhibition
				NOEC: 1.000 mg/ Exposure time: 3 l Test Type: Respir Method: OECD Te	า ation inhibition



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Persi	stence and degrada	bility		
<u>Com</u>	oonents:			
Benz	yl alcohol:			
Biode	gradability	:	Result: Readily Biodegradation Exposure time:	: 92 - 96 %
Dexa	methasone:			
Biode	gradability	:	Biodegradation Exposure time:	
Bioad	ccumulative potentia	al		
Com	oonents:			
Benz	yl alcohol:			
	ion coefficient: n- ol/water	:	log Pow: 1,05	
Dexa	methasone:			
	ion coefficient: n- ol/water	:	log Pow: 1,83	
Mobi	lity in soil			
No da	ata available			
	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.
Contaminated packaging	: Empty containers should be taken to an approved waste
	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good





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	sport in bulk accord	ing to Annex II of MARF	POL 73	/78 and the IBC Code
Spec	ial precautions for upplicable			
SECTION	15. REGULATORY I	NFORMATION		
Cofor				
mixtu		nmental regulations/leg	gislatio	n specific for the substance or
mixtu	ire ntina. Carcinogenic Su	nmental regulations/leg		
mixtu Arger Regis Contr	ntina. Carcinogenic Su stry.		:	Not applicable

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

SECTION 16. OTHER INFORMATION

Revision Date	:	12.12.2023
Date format	:	dd.mm.yyyy

Further information

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

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Con-



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centration 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 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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