

Version 1.8	Revision Date: 14.12.2023		S Number: 92910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020		
SECTIC	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION					
Pro	Product name		Dexamethasone	(0.28%) Formulation		
Oth	Other means of identification		Dexadreson (A0 DEXADRESON	01421) INJECTION (52298)		
Ма	nufacturer or supplier's	deta	ils			
Co	mpany	:	MSD			
Ade	dress	:		nto Soares, 530 Paulo - Brazil CEP 12730-340		
Tel	ephone	:	908-740-4000			
Em	ergency telephone	:	1-908-423-6000			
E-r	nail address	:	EHSDATASTEW	VARD@msd.com		
Re	commended use of the c	hem	ical and restriction	ons on use		
	commended use strictions on use	:	Veterinary produ Not applicable	ict		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accord Long-term (chronic) aquatic hazard		ce with ABNT NBR 14725 Standard Category 3
GHS label elements in accor Hazard Statements		nce with ABNT NBR 14725 Standard H412 Harmful to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention: P273 Avoid release to the environment.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Benzyl alcohol		Acute toxicity (Oral), Category 4 Acute toxicity (Inhala-	>= 1 -< 5



Version 1.8	Revision Date: 14.12.2023	SDS Number: 5492910-00009	Date of last issue: Date of first issue:	• · · · = • = •
			tion), Category 4 Eye irritation, Category 2A	
Dexa	methasone	50-02-2	Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure (Oral) (Ad- renal gland, Immune system, thymus gland), Category 2 Long-term (chronic) aquatic hazard, Category 1	>= 0,25 -< 0,3

	-	
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	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	None known.
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

SECTION 4. FIRST AID MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire	:	Exposure to combustion products may be a hazard to health.



Versio 1.8	on	Revision Date: 14.12.2023		92910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020	
F	ighting Hazardo ucts	ous combustion prod-	:	Carbon oxides Metal oxides		
C	Specific extinguishing meth- ods		:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to c so. Evacuate area.		
	Special or fire-f	protective equipment	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.	
SECT	FION 6.	ACCIDENTAL RELE	ASE	EMEASURES		
ti	ive equ	al precautions, protec- ipment and emer- irocedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	
E	Environ	mental 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	
		s and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r	absorbent material. Tovide 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	

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.	
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 safe practice, based on the results of the workplace exposure assessment 	ety

employed in the cleanup of releases. You will need to

certain local or national requirements.

determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding



Version 1.8	Revision Date: 14.12.2023	SDS Number: 5492910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020
Hygid	ene measures	 environment. If exposure to of flushing system place. When using do Wash contamine The effective of engineering contaction 	r tightly closed. revent spills, waste and minimize release to the chemical is likely during typical use, provide eye as and safety showers close to the working not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the
Conc	litions for safe storage	Keep tightly clo	ly labeled containers. sed.
Materials to avoid		: Do not store wi Strong oxidizing	ibstances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Dexamethasone	50-02-2	TWA	10 µg/m3 (OEB 3)	Internal
	Further informa	ation: Skin		
		Wipe limit	100 µg/100 cm²	Internal

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.
Personal protective equipment	

Respiratory protection Filter type Hand protection		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
Material	:	Chemical-resistant gloves



Version 1.8	Revision Date: 14.12.2023	SDS Number: 5492910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020					
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 						
Skin a	and body protection	potential for direc aerosols. : Work uniform or Additional body o task being perfor disposable suits)	t contact to the face with dusts, mists, or laboratory coat. garments should be used based upon the med (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. degowning techniques to remove potentially					

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies)		



Vers 1.8	sion	Revision Date: 14.12.2023		S Number: 92910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020
	Wate	er solubility	:	No data available	9
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosit Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	O · I ^I ·				
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle	size	:	Not applicable	

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	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Components:

Benzyl alcohol:

SAFETY DATA SHEET



Dexamethasone (0.28%) Formulation

rsion	Revision Date: 14.12.2023	-	0S Number: 92910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020	
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		
Dexa	methasone:				
	oral toxicity	:	LD50 (Rat): > 2.00	00 mg/kg	
			LD50 (Mouse): > (6.500 mg/kg	
	toxicity (other routes of histration)	:	LD50 (Rat): 14 mg Application Route		
_	corrosion/irritation assified based on availa	ble	information.		
Comp	oonents:				
Benzy	yl alcohol:				
Speci		:	Rabbit		
Metho		:	OECD Test Guideline 404		
Resul	t	:	No skin irritation		
Dexa	methasone:				
Speci	es	:	Rabbit		
Resul	t	:	Mild skin irritation		
Not cl	us eye damage/eye irri assified based on availa				
	oonents:				
-	yl alcohol:		D 11 %		
Speci Resul		:	Rabbit	eversing within 21 days	
Metho		:	OECD Test Guide		
Dexa	methasone:				
Speci		:	Rabbit		
Resul		:	Mild eye irritation		
Respi	iratory or skin sensitiza	atio	n		
_	sensitization				
Not cl	assified based on availa	ble	information.		
Respi	iratory sensitization				

Not classified based on available information.



rsion	Revision Date: 14.12.2023	-	OS Number: 92910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020		
<u>Com</u>	oonents:					
Benz	yl alcohol:					
Test Route Speci Metho Resul	es of exposure es od		Maximization Te Skin contact Guinea pig OECD Test Gui negative			
Germ	cell mutagenicity					
Not cl	assified based on av	ailable	information.			
<u>Comp</u>	oonents:					
Benz	yl alcohol:					
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)		
Geno	toxicity in vivo	:	: Test Type: Mammalian erythrocyte micronucleus test (in v cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative			
Dexa	methasone:					
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)		
			Test Type: in vit Test system: mo Result: negative	ouse lymphoma cells		
Geno	toxicity in vivo	:	: Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative			
	nogenicity lassified based on av	ailable	information.			
Com	oonents:					
Benz	yl alcohol:					
Speci	es	:	Mouse			

Species	: Mouse
Application Route	: Ingestion
Exposure time	: 103 weeks
Method	: OECD Test Guideline 451
Result	: negative

Reproductive toxicity

Not classified based on available information.



rsion	Revision Date: 14.12.2023		DS Number: 92910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020
Com	oonents:			
Benz	yl alcohol:			
	s on fertility	:	Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials
Effect	s on fetal development	:	Test Type: Embr Species: Mouse Application Route Result: negative	yo-fetal development e: Ingestion
Dexa	methasone:			
	s on fetal development	:		
				e: Intramuscular oxicity: NOAEL: 0,025 mg/kg body weight developmental abnormalities.
				e: Intramuscular oxicity: LOAEL: >= 0,062 mg/kg body weigh developmental abnormalities.
				e: Subcutaneous oxicity: LOAEL: >= 0,02 mg/kg body weight and visceral variations ., Retardations.
Repro sessn	oductive toxicity - As- nent	:	May damage the	unborn child.
STOT	-single exposure			
Not cl	lassified based on availa	ble	information.	
	-repeated exposure lassified based on availa	ble	information.	
Com	oonents:			
Dexa	methasone:			
Route Targe	es of exposure et Organs ssment	:		nmune system, thymus gland age to organs through prolonged or repeated



Versio 1.8	on	Revision Date: 14.12.2023		DS Number: 92910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020
F	Repeat	ed dose toxicity			
<u>c</u>	Compo	onents:			
S N A E	Species NOAEL Applica	- tion Route ire time	:	Rat 1,072 mg/l inhalation (dust/m 28 Days OECD Test Guide	
S N A E T	Species NOAEL Applica Exposu	tion Route ire time Organs		Rat 0,0015 mg/kg Oral 7 d Liver Significant toxicity	v observed in testing
L A E T	Exposu	tion Route ire time Organs			and, thymus gland / observed in testing
L A E T	Exposu	tion Route ire time Organs		Rat 0,125 mg/kg Oral 6 Weeks Adrenal gland Significant toxicity	<i>r</i> observed in testing
L A E T	Exposu	tion Route ire time Organs		Rat 0,4 mg/kg Oral 3 Months Immune system Significant toxicity	<i>r</i> observed in testing
L A E T	Exposu	tion Route ire time Organs		Dog 8 mg/kg Oral 3 Months Immune system Significant toxicity	v observed in testing
4	Aspirat	tion toxicity			

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Dexamethasone:



ersion 3	Revision Date: 14.12.2023		92910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020			
Ingestion		:	: Target Organs: Immune system Target Organs: Adrenal gland Target Organs: Bone Symptoms: muscle weakness				
	2. ECOLOGICAL INFO	DRN	IATION				
Ecoto	-						
<u>Comp</u>	onents:						
-	l alcohol:						
loxicit	y to fish	:	Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h			
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te				
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te				
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te				
	y to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te				
Dexan	nethasone:						
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te				
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te				
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te				
Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te				
M-Fac toxicity	tor (Chronic aquatic ′)	:	1				

SAFETY DATA SHEET



Dexamethasone (0.28%) Formulation

/ersion I.8	Revision Date: 14.12.2023		DS Number: 92910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020
Toxicity to microorganisms		:	EC50: > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209	
			NOEC: 1.000 mg Exposure time: 3 Test Type: Resp Method: OECD	3 h
Persi	istence and degradat	oility		
Com	ponents:			
Benz	yl alcohol:			
Biode	egradability	:	Result: Readily to Biodegradation: Exposure time: 1	92 - 96 %
Dexa	methasone:			
Biode	egradability	:	Biodegradation: Exposure time: 3	
Bioa	ccumulative potentia	I		
Com	ponents:			
Benz	yl alcohol:			
	ion coefficient: n- ol/water	:	log Pow: 1,05	
Partit	methasone: ion coefficient: n- iol/water	:	log Pow: 1,83	
	lity in soil ata available			
	r adverse effects 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.





Version 1.8	Revision Date: 14.12.2023	SDS Number: 5492910-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020					
SECTION	14. TRANSPORT IN	FORMATION						
Interi	national Regulations	;						
UNR ⁻ Not re	TDG egulated as a dangero	ous good						
	-DGR egulated as a danger	ous good						
-	-Code egulated as a dangero	ous good						
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.							
Dom	estic regulation							
ANT Not re	r egulated as a dangero	ous good						
•	ial precautions for u pplicable	ser						
SECTION	15. REGULATORY I	NFORMATION						
Safet mixtu		nmental regulations/le	gislation specific for the substance or					
Natio (LINA		ic Agents for Humans -	: Not applicable					
Brazi Police		ntrolled by the Federal	: Not applicable					

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

: not determined
: not determined
: not determined

SECTION 16. OTHER INFORMATION

Revision Date	:	14.12.2023
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		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/



Version	Revision Date:	SDS Number:
1.8	14.12.2023	5492910-00009

Date of last issue: 04.12.2023 Date of first issue: 10.03.2020

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 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 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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