



### Dexamethasone (0.085%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.9	30.09.2023	2708659-00010	Date of first issue: 13.04.2018

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Dexamethasone (0.085%) Formulation

Manufacturer o	or	supplier's	details
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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**

Not a hazardous substance or mixture.

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

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 -< 5
Dexamethasone	50-02-2	< 0.1

### **SECTION 4. FIRST AID MEASURES**

If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
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 if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	None known.
Protection of first-aiders Notes to physician	:	No special precautions are necessary for first aid responders. Treat symptomatically and supportively.



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Versio 1.9	on Revision Date: 30.09.2023		9S Number: 08659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018
SECT	TION 5. FIRE-FIGHTING ME	ASU	IRES	
ç	Suitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Jnsuitable extinguishing nedia	:	None known.	
	Specific hazards during fire ighting	:	Exposure to com	pustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides	
	Specific extinguishing meth- ods	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special protective equipment or fire-fighters	:	necessary.	ed breathing apparatus for firefighting if tective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal protective equipment 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. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

- Technical measures
- : See Engineering measures under EXPOSURE



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Version 1.9	Revision Date: 30.09.2023	SDS Number: 2708659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018
Advice	Fotal ventilation on safe handling	: Use only with : Handle in acc practice, base assessment Take care to environment.	PERSONAL PROTECTION section. adequate ventilation. ordance with good industrial hygiene and safety ed on the results of the workplace exposure prevent spills, waste and minimize release to the
nygier	e measures	flushing syste place. When using c Wash contam The effective engineering c appropriate d industrial hyg	chemical is likely during typical use, provide eye ms and safety showers close to the working on ot eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, tene monitoring, medical surveillance and the strative controls.
	ions for safe storage	Store in acco	rly labeled containers. dance with the particular national regulations.
Materia	als to avoid	: Do not store v Strong oxidizi Gases	vith the following product types: ng agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Dexamethasone	50-02-2	TWA	10 µg/m3 (OEB 3)	Internal
	Further informa	ation: Skin		
		Wipe limit	100 µg/100 cm <sup>2</sup>	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	If adequate local exhaust ventilation is not available or

Filter type	•	exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Organic vapor Type
Hand protection	•	
Material	:	Chemical-resistant gloves



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Version 1.9	Revision Date: 30.09.2023	SDS Number: 2708659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018
Remarks Eye protection		If the work envir mists or aeroso	e gloving. sses with side shields or goggles. ronment or activity involves dusty conditions, ls, wear the appropriate goggles. eld or other full face protection if there is a
Skin a	and body protection	potential for dire aerosols. : Work uniform o Additional body task being perfo disposable suits	ect contact to the face with dusts, mists, or r laboratory coat. garments should be used based upon the ormed (e.g., sleevelets, apron, gauntlets, s) to avoid exposed skin surfaces. e degowning techniques to remove potentially

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	7.0 - 7.8 No data available
Melting point/freezing point	:	Not applicable
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	:	1.01 g/cm <sup>3</sup>



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Versio 1.9	n Revision Date: 30.09.2023	SDS Number: 2708659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Autoignition temperature		: soluble : No data availal : No data availal	
D	ecomposition temperature	: No data availal	ble
	Viscosity, kinematic xplosive properties	: No data availal : Not explosive	ble
	vidizing properties		or mixture is not classified as oxidizing.
	lolecular weight	: Not applicable	
P	article 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 exposure

Inhalation 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



sion	Revision Date: 30.09.2023		9S Number: 08659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018
Comp	oonents:			
Benzy	/l alcohol:			
-	oral toxicity	:	LD50 (Rat): 1,620	) mg/kg
	·			
Acute	inhalation toxicity	:	LC50 (Rat): > 4.1 Exposure time: 4	
			Test atmosphere:	
				est Guideline 403
Dexa	nethasone:			
Acute	oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
			LD50 (Mouse): >	6.500 mg/kg
۰	tovicity (ather must a st		, , , , , , , , , , , , , , , , , , ,	
	toxicity (other routes of istration)	:	Application Route	
_	corrosion/irritation			
	assified based on availa	ble	information.	
Comp	oonents:			
Benzy	/l alcohol:			
Speci		:	Rabbit	
Metho		:	OECD Test Guide	eline 404
Resul	t	:	No skin irritation	
Dexa	methasone:			
Speci	es	:	Rabbit	
Resul		:	Mild skin irritation	
Serio	us eye damage/eye irri	tati	on	
	assified based on availa			
Comp	oonents:			
Benzy	/l alcohol:			
Speci		:	Rabbit	
Resul	t	:		reversing within 21 days
Metho	od	:	OECD Test Guide	eline 405
Dexa	nethasone:			
Speci	es	:	Rabbit	
Resul		:	Mild eye irritation	
Respi	ratory or skin sensitiza	atio	n	
-	sensitization			
SKIII S			information.	



/ersion .9	Revision Date: 30.09.2023	SDS Number: 2708659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018		
	iratory sensitizatior lassified based on av				
Com	ponents:				
Benz	yl alcohol:				
Test Route	Type es of exposure	: Maximizatio : Skin contac			
Spec	ies	: Guinea pig			
Meth Resu		: negative	Guideline 406		
	n cell mutagenicity lassified based on av	ailable information.			
Com	ponents:				
Benz	yl alcohol:				
Geno	toxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative		
Geno	toxicity in vivo	cytogenetic Species: Mo	buse Route: Intraperitoneal injection		
	methasone:				
Geno	toxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative		
		Test Type: i			
		Result: nega	i: mouse lymphoma cells ative		
Geno	toxicity in vivo		Micronucleus test		
		Species: Mo Application			
		Result: neg			
Carci	inogenicity				
Not c	lassified based on av	ailable information.			
Com	ponents:				
	yl alcohol:				
Spec Appli	ies cation Route	: Mouse : Ingestion			
	sure time	: 103 weeks			
Meth	od	d : OECD Test Guideline 451			
Resu	π	: negative			



rsion )	Revision Date: 30.09.2023		0S Number: 08659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018
•	oductive toxicity			
Not cl	assified based on availa	able	information.	
Comp	oonents:			
Benzy	yl alcohol:			
Effect	s on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development :: Ingestion on data from similar materials
Effect	s on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-fetal development : Ingestion
Dexa	methasone:			
Effect	s on fetal development	:		
				e: Intramuscular oxicity: NOAEL: 0.025 mg/kg body weight evelopmental abnormalities.
				e: Intramuscular oxicity: LOAEL: >= 0.062 mg/kg body weight evelopmental abnormalities.
				e: Subcutaneous oxicity: LOAEL: >= 0.02 mg/kg body weight ind visceral variations ., Retardations.
Repro sessm	oductive toxicity - As- nent	:	May damage the	unborn child.
STOT	-single exposure			
Not cl	assified based on availa	able	information.	
STOT	-repeated exposure			
Not cl	assified based on availa	able	information.	
Comp	oonents:			
Dexa	methasone:			
Targe	es of exposure it Organs ssment	: :		mune system, thymus gland ge to organs through prolonged or repeated



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Version 1.9	Revision Date: 30.09.2023	SDS Number: 2708659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018
<u>Com</u> Benz Spec NOA Appli	EL cation Route sure time	: Rat : 1.072 mg/l : inhalation (dus : 28 Days : OECD Test Gu	
Spec NOA Appli Expo	EL cation Route sure time et Organs	: Rat : 0.0015 mg/kg : Oral : 7 d : Liver : Significant toxi	city observed in testing
Expo	EL ication Route isure time et Organs		l gland, thymus gland city observed in testing
Expo	EL cation Route sure time et Organs	: Rat : 0.125 mg/kg : Oral : 6 Weeks : Adrenal gland : Significant toxi	city observed in testing
Expo	EL ication Route isure time et Organs	: Rat : 0.4 mg/kg : Oral : 3 Months : Immune syster : Significant toxi	m city observed in testing
Expo	EL cation Route sure time et Organs	: Dog : 8 mg/kg : Oral : 3 Months : Immune syster : Significant toxi	m city observed in testing

### Aspiration toxicity

Not classified based on available information.



ersion )	Revision Date: 30.09.2023		9S Number: 08659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018
Exper	ience with human exp	osu	ire	
<u>Comp</u>	onents:			
Dexar	nethasone:			
Ingestion			Target Organs: Target Organs: Target Organs: Symptoms: mus	Bone
	12. ECOLOGICAL INFO	DRN	IATION	
Ecoto	xicity			
<u>Comp</u>	onents:			
Benzy	l alcohol:			
Toxicit	y to fish	:	LC50 (Pimepha Exposure time:	les promelas (fathead minnow)): 460 mg/l 96 h
	y to daphnia and other c invertebrates	:	Exposure time:	magna (Water flea)): 230 mg/l 48 h Test Guideline 202
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time:	tirchneriella subcapitata (green algae)): 770 72 h Test Guideline 201
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): 310 72 h Test Guideline 201
	y to daphnia and other c invertebrates (Chron- city)	:	Exposure time:	a magna (Water flea)): 51 mg/l 21 d Test Guideline 211
Dexar	nethasone:			
	y to daphnia and other c invertebrates	:	Exposure time:	magna (Water flea)): > 56 mg/l 48 h Test Guideline 202
Toxicif plants	y to algae/aquatic	:	mg/l Exposure time:	tirchneriella subcapitata (green algae)): > 9.2 72 h Test Guideline 201
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): 9.2 72 h Test Guideline 201
	y to fish (Chronic tox-	:		ales promelas (fathead minnow)): 0.033 mg



ersion 9	Revision Date: 30.09.2023		S Number: 08659-00010	Date of last issue: 04.04.2023 Date of first issue: 13.04.2018
icity)			Exposure time: Method: OECD	32 d Test Guideline 210
Toxicity to microorganisms		:		
Persi	stence and degradab	ility		
Com	ponents:			
Benz	yl alcohol:			
Biode	egradability	:	Result: Readily Biodegradation: Exposure time:	92 - 96 %
Dexa	methasone:			
Biode	gradability	:	Biodegradation: Exposure time:	
Bioad	ccumulative potential			
<u>Com</u>	ponents:			
Benz	yl alcohol:			
	ion coefficient: n- ol/water	:	log Pow: 1.05	
	methasone:			
	ion coefficient: n- ol/water	:	log Pow: 1.83	
	lity in soil			
	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.



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Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.9	30.09.2023	2708659-00010	Date of first issue: 13.04.2018

#### 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

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

Not applicable for product as supplied.

#### **Domestic regulation**

### NOM-002-SCT

Not regulated as a dangerous good

### Special precautions for user

Not applicable

### 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	:	30.09.2023
Date format	:	dd.mm.yyyy

#### 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 Sys-



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Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.9	30.09.2023	2708659-00010	Date of first issue: 13.04.2018

tem; 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

Sources of key data used to : compile the Material Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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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