

Versi 4.1	ion	Revision Date: 30.09.2023		S Number: 3212-00012		sue: 04.04.2023 sue: 23.02.2018
Sect	ion 1: lo	dentification				
	Product	name	:	Dexamethasone	Solid Formulati	on
	Manufa	cturer or supplier's d	letai	ls		
	Compar	у	:	MSD		
	Address	5	:	33 Whakatiki Stro Upper Hutt - Nev		g 908
	Telepho	one	:	0800 800 543		
	Emerge	ncy telephone number	· :	0800 764 766 (08 CHEMCALL)	800 POISON)	0800 243 622 (0800
	E-mail a	address	:	EHSDATASTEW	/ARD@msd.con	n
	Recom	mended use of the ch	nemi	cal and restriction	ons on use	
		nended use ions on use	:	Veterinary produ Not applicable	ct	
Sect	ion 2: H	lazard identification				
	GHS CI	assification				
	Reprodu	uctive toxicity	:	Category 1		
		ous to the aquatic ment - chronic hazard	:	Category 3		
	GHS lal	bel elements				
	Hazard	pictograms	:			
	Signal v	vord	:	Danger		
	Hazard	statements	:	H360D May dam H412 Harmful to		child. long lasting effects.

Precautionary statements

2

Prevention: P201 Obtain special instructions before use. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.



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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

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Starch	9005-25-8	>= 30 -< 50
Dexamethasone	50-02-2	>= 0.25 -< 1

Section 4: First-aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice 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	:	If in eyes, rinse well with water. 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	:	May damage the unborn child. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	Dust contact with the eyes can lead to mechanical irritation. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment



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Notes	s to physician	:		Il for exposure exists (see section 8). cally and supportively.
Section 5	: Fire-fighting measure	S		
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	itable extinguishing	:	None known.	
Spec	media Specific hazards during fire- fighting		concentrations, and potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides	
Spec ods	ific extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to d
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
Section 6	: Accidental release me	eas	ures	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- t recommendations (see section 8).
Envir	onmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ods and materials for ainment and cleaning up	:	tainer for disposa Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the of mine which regula Sections 13 and	f dust in the air (i.e., clearing dust surfaces



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Section 7: Handling and storage					
Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. 				
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 dust. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. 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 labelled containers. Keep tightly closed. Store in accordance with the particular national regulations. 				
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents				

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Starch	9005-25-8	WES-TWA	10 mg/m3	NZ OEL
		TWA	10 mg/m3	ACGIH
Dexamethasone	50-02-2	TWA	10 µg/m3 (OEB 3)	Internal
	Further informa	ation: Skin		
		Wipe limit	100 µg/100 cm ²	Internal



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Engii	neering measures	design and o protect produ Containment are required	
Perso	onal protective equip	ment	
Fil	iratory protection Iter type protection	sure assessn	ocal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- juidelines, use respiratory protection. ype
M	aterial	: Chemical-res	istant gloves
	emarks	: Consider dou	
Eye p	protection	If the work er mists or aero Wear a faces	glasses with side shields or goggles. hvironment or activity involves dusty conditions, sols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or
Skin a	and body protection	Additional bo task being pe posable suits	n or laboratory coat. dy garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. ate degowning techniques to remove potentially d clothing.

Section 9: Physical and chemical properties

Appearance	:	powder
Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable



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Evapo	oration rate	:	Not applicable	
Flamr	nability (solid, gas)	:	May form explosed dling or other me	sive dust-air mixture during processing, ha
Flamr	nability (liquids)	:	No data availabl	е
	r explosion limit / Upper nability limit	:	No data availabl	e
	r explosion limit / Lower nability limit	:	No data availabl	e
Vapo	ur pressure	:	Not applicable	
Relati	ive vapour density	:	Not applicable	
Relati	ive density	:	No data availabl	е
Densi	ity	:	No data availabl	е
	ility(ies) ater solubility	:	No data availabl	е
	ion coefficient: n-	:	Not applicable	
	ol/water ignition temperature	:	No data availabl	e
Deco	mposition temperature	:	No data availabl	е
Visco Vis	sity scosity, kinematic	:	Not applicable	
Explo	sive properties	:	Not explosive	
Oxidiz	zing properties	:	The substance of	or mixture is not classified as oxidizing.
Moleo	cular weight	:	No data availabl	е
Partic	le size	:	No data availabl	e

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.



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		Avoid dust for	mation		
Incompatible materials Hazardous decomposition products	:	Avoid dust formation.Oxidizing agentsNo hazardous decomposition products are known.			
ction 11: Toxicological infor	matic	on			
Exposure routes	:	Inhalation Skin contact Ingestion Eye contact			
Acute toxicity Not classified based on avai	lable	information.			
Components:					
Starch:					
Acute oral toxicity	:	LD50 (Rat): > 5	5,000 mg/kg		
Acute dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg		
Dexamethasone:					
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg			
		LD50 (Mouse):	> 6,500 mg/kg		
Acute toxicity (other routes of administration)	of :		mg/kg ute: Subcutaneous		
Skin corrosion/irritation Not classified based on avai	lable	information.			
Components:					
Dexamethasone:					
Species Result	:	Rabbit Mild skin irritati			
Result	•	WIIU SKITI IITILALI			
Serious eye damage/eye ir Not classified based on avai					
Components:					
Starch:					
Species Result	:	Rabbit No eye irritatior	n		
Dexamethasone:					
Species Result	:	Rabbit Mild eye irritatio	on		



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Starch:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

Starch:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Dexamethasone:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: in vitro assay Test system: mouse lymphoma cells Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Application Route: Oral

Result: negative

Carcinogenicity

Not classified based on available information.

:

Reproductive toxicity

May damage the unborn child.

Components:

Dexamethasone:

Effects on foetal development Test Type: Development Species: Mouse



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				: Subcutaneous oxicity: LOAEL: 6 mg/kg body weight evelopmental abnormalities, Cleft palate
				: Intramuscular oxicity: NOAEL: 0.025 mg/kg body weight evelopmental abnormalities
				: Intramuscular oxicity: LOAEL: >= 0.062 mg/kg body weight evelopmental abnormalities
			•	: Subcutaneous oxicity: LOAEL: >= 0.02 mg/kg body weight nd visceral variations, Retardations
	productive toxicity - As- ssment	:	May damage the	unborn child.
	OT - single exposure It classified based on availa	able	information.	
ST	OT - repeated exposure			
	t classified based on availa	able	information.	
<u>Co</u>	emponents:			
De	examethasone:			
Та	posure routes rget Organs sessment	:	0,	mune system, thymus gland ge to organs through prolonged or repeated
Re	peated dose toxicity			
<u>Co</u>	omponents:			
Sta	arch:			
NC Ap Ex	ecies DAEL plication Route posure time ethod	: : : : : : : : : : : : : : : : : : : :	Rat >= 2,000 mg/kg Skin contact 28 Days OECD Test Guide	eline 410
De	examethasone:			
Sp NC Ap	ecies DAEL plication Route posure time	: : :	Rat 0.0015 mg/kg Oral 7 d	



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Targo Rema Spec LOAI Appli Expo Targo Rema	et Organs arks ies EL cation Route sure time et Organs arks	: Liver : Significant : Rat : 0.003 mg/k : Oral : 90 d : Blood, Adr : Significant : Rat	toxicity observed in testing <g enal gland, thymus gland toxicity observed in testing</g
Expo	cation Route sure time et Organs	: 0.125 mg/k : Oral : 6 Weeks : Adrenal gla : Significant	
Expo	EL cation Route sure time et Organs	: Rat : 0.4 mg/kg : Oral : 3 Months : Immune sy : Significant	/stem toxicity observed in testing
Expo	EL cation Route sure time et Organs	: Dog : 8 mg/kg : Oral : 3 Months : Immune sy : Significant	vstem toxicity observed in testing
	ration toxicity	ailable information.	
Expe	erience with human e	exposure	
<u>Com</u>	ponents:		
	methasone:		
Inges	STION	Target Org Target Org	jans: Immune system jans: Adrenal gland jans: Bone

Section 12: Ecological information

Ecotoxicity

Components:

Dexamethasone:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 56 mg/l

Symptoms: muscle weakness



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Toxicil plants	c invertebrates ty to algae/aquatic ty to fish (Chronic tox-	:	EC50 (Pseudoł mg/l Exposure time: Method: OECD NOEC (Pseudo mg/l Exposure time: Method: OECD	Test Guideline 202 kirchneriella subcapitata (green algae)): > 9.2 72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 9.2
icity)		•	Exposure time:	
	tor (Chronic aquatic	:	1	
	toxicity) Toxicity to microorganisms			
Persis	stence and degradabil	ity		
<u>Comp</u>	onents:			
	nethasone: gradability	:	 Result: Not readily biodegradable. Biodegradation: 50 % Exposure time: 3.54 d Method: OECD Test Guideline 314 	
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Partitio	nethasone: on coefficient: n- ol/water	:	log Pow: 1.83	
	ity in soil ta available			
	adverse effects ta available			



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Section 13: Disposal considerations

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 han-
		dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

UNRTDG

:	Not applicable
:	Not applicable
:	Not applicable
:	Not applicable
	:

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable for product as supplied.

National Regulations

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable



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Labe	ing group Is	: Not applicable : Not applicable			
Hazc	hem Code	: Not applicable			
Special precautions for user Not applicable					
Section 15: Regulatory information					
Safety, health and environmental regulations/legislation specific for the substance or mix- ture					

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

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

Section 16: Other information

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Further information			
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/	
Date format	:	dd.mm.yyyy	
Full text of other abbreviations			
ACGIH NZ OEL	:	USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants	
ACGIH / TWA NZ OEL / WES-TWA	:	8-hour, time-weighted average Workplace Exposure Standard - Time Weighted average	

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



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x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response: ERG - Emergency Response Guide: GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NZ / EN