

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
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SECTION 1. IDENTIFICATION

Product name	:	Betamethasone Sodium Phosphate Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Organon & Co.
Address	:	30 Hudson Street, 33nd floor
		Jersey City, New Jersey, U.S.A 07302
Telephone	:	1-551-430-6000
Emergency telephone	:	1-215-631-6999
E-mail address	:	EHSSTEWARD@organon.com
		-

Recommended use of the chemical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord Reproductive toxicity	lan :	ce with the Hazardous Products Regulations Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	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 and face protection.

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Response:

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

Storage:

P405 Store locked up.

Disposal:

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

Other hazards

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Mixture :

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Betamethasone	No data availa- ble	378-44-9	>= 0.1 - < 1 *

Actual concentration or concentration range is withheld as a trade secret

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	:	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	:	



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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 when the potential for exposure exists (see section 8).		
N	Notes t	o physician	:		cally and supportively.
SECT	TION 5	. FIRE-FIGHTING ME	ASL	IRES	
S	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Jnsuita nedia	able extinguishing	:	None known.	
	Specifi ighting	c hazards during fire		Exposure to com	pustion products may be a hazard to health.
Н		lous combustion prod-	:	No hazardous co	mbustion products are known
	Specifi ods	c 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 do
		l protective equipment fighters	:		e, wear self-contained breathing apparatus. tective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. 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

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		disposal of this employed in the determine whic Sections 13 and	al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Tech	nical measures	causing an exp Provide adequa	ate precautions, such as electrical grounding
Local	I/Total ventilation		r inert atmospheres. tilation is unavailable, use with local exhaust
Advic	e on safe handling	: Do not get on s Do not breathe Do not swallow Avoid contact w Wash skin thor Handle in accor practice, based assessment Keep container Minimize dust g Keep container Keep away fror Take precaution Do not eat, drin	mist or vapors. vith eyes. oughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure
Cond	litions for safe storage	: Keep in properl Store locked up Keep tightly clo	
Mate	rials to avoid	: Do not store wir Strong oxidizing	th the following product types: g agents bstances and mixtures

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
Betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal



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			Further informa	ition: Skin			
				Wipe limit	10 µg/100 cm ²	Internal	
Eng	ineering measures	:	design and op protect produc Essentially no Use closed pro If handled in a cabinet, fume potential exists	erated in acco ts, workers, ar open handling ocessing syste laboratory, us hood, or other s for aerosoliza	uld be implemented b rdance with GMP print and the environment. permitted. ems or containment to e a properly designed containment device ation. If this potential s or benchtops.	echnologies. d biosafety if the	
Pers	onal protective equip	ment					
F	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. Particulates type				
N	laterial	:	Chemical-resis	stant gloves			
	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 potential for direct contact to the face with dusts, mists, or aerosols.				
Skin	Skin and body protection		Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.			untlets,	
Hygi	ene measures	:	If exposure to eye flushing sy working place. When using do Wash contami The effective of engineering co appropriate de	chemical is like ystems and sa p not eat, drink nated clothing operation of a f ontrols, proper gowning and o ene monitoring	before re-use. facility should include personal protective decontamination pro g, medical surveilland	o the e review of equipment, cedures,	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	No data available

according to the Hazardous Products Regulations



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	Odor		:	No data available	
	Odor Th	nreshold	:	No data available)
	pН		:	No data available)
	Melting	point/freezing point	:	No data available)
	Initial bo range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	
	Evapora	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	May form combus ssing, handling o	stible dust concentrations in air during proce- r other means.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available)
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available)
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	9
	Density		:	No data available	
	Solubili Wate	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n- /water	:	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	
	Oxidizir	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	

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Partic	cle size	:	Not applicable		
SECTION	10. STABILITY AND RE	EAC	ΤΙΛΙΤΑ		
Reac	tivity	:	Not classified	as a reactivity hazard.	
Chen	nical stability	:	Stable under r	normal conditions.	
Poss	ibility of hazardous reac-	:	: May form combustible dust concentrations in air during		
tions			processing, ha	andling or other means.	
			Can react with	strong oxidizing agents.	
Cond	litions to avoid	:	: Heat, flames and sparks.		
			Avoid dust for	nation.	
Incon	npatible materials	:	Oxidizing agents		
Haza	rdous decomposition	:	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 inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:		

Betamethasone:

Detamethasone.		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
		LD50 (Mouse): > 4,500 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0.4 mg/l Exposure time: 4 h

Skin corrosion/irritation

Not classified based on available information.

Components:

Betamethasone:

Species

: Rabbit

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	Result		:	Mild skin irritation	
		s eye damage/eye irr ssified based on availa			
	Compo	onents:			
	Betam	ethasone:			
	Specie Result	S	:	Rabbit No eye irritation	
	Respir	atory or skin sensitiz	atio	n	
	Skin s	ensitization			
	Not cla	ssified based on availa	ble	information.	
	-	atory sensitization ssified based on availa	able	information.	
	Compo	onents:			
	Betam	ethasone:			
	Routes Specie Result	of exposure s	: : :	Dermal Guinea pig Weak sensitizer	
		cell mutagenicity ssified based on availa	able	information.	
	Compo	onents:			
	Betam	ethasone:			
	Genoto	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: In vitro Result: negative	o mammalian cell gene mutation test
				Test Type: Chrom Result: positive	nosome aberration test in vitro
	Genoto	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: equivocal	
	Germ o Assess	cell mutagenicity - sment	:	Weight of evidenc cell mutagen.	e does not support classification as a germ



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	:inogenicity classified based on availa	able	information.	
May	roductive toxicity damage the unborn chilc pponents:	d.		
Beta	methasone: cts on fetal development	:	Result: Fetotoxici Species: Rat Application Route Developmental To Result: Malformat Species: Mouse Application Route Developmental To	oxicity: LOAEL: 0.05 mg/kg body weight ty., Malformations were observed. :: Subcutaneous oxicity: LOAEL: 0.42 mg/kg body weight ions were observed.
•	roductive toxicity - As- ment	:	Clear evidence of animal experimen	adverse effects on development, based on ts.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland) through prolonged or repeated exposure.

Components:

Betamethasone:

Detamethasone.	
Target Organs	: Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland
Assessment	: Causes damage to organs through prolonged or repeated exposure.
Repeated dose toxicity	
Components:	
Betamethasone:	
Species	: Rabbit
LÖAEL	: 0.05 %
Application Route	: Skin contact
Exposure time	: 10 - 30 d
Target Organs	: Pituitary gland, Immune system, muscle

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Expo		:	Rat 0.05 % Skin contact 8 Weeks thymus gland	
Expo			Mouse 0.1 % Skin contact 8 Weeks thymus gland	
Expo		:	Dog 0.05 mg/kg Oral 28 d Blood, thymus g	land, Adrenal gland
Not c	r ation toxicity lassified based on avai			
-	rience with human ex ponents:	pos	ure	
Inhala		:	Target Organs:	
<u> </u>	contact 12. ECOLOGICAL INI	:		ness, pruritis, Irritation
SECTION	12. ECOLOGICAL INI		MATION	
Ecote	oxicity			
Com	ponents:			
Toxic	methasone: ity to daphnia and othe tic invertebrates	r:	EC50 (America Exposure time:	nysis): > 50 mg/l 96 h
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: Method: OECD	irchneriella subcapitata (green algae)): > 34 72 h Test Guideline 201 xicity at the limit of solubility.

NOEC (Pseudokirchneriella subcapitata (green algae)): 34 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility.



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Toxic icity)	ity to fish (Chronic tox-	:	Exposure time:	ales promelas (fathead minnow)): 0.052 mg/l 32 d Test Guideline 210
			Exposure time:	latipes (Japanese medaka)): 0.07 μg/l 219 d Test Guideline 229
	ity to daphnia and other tic invertebrates (Chron- icity)		Exposure time:	a magna (Water flea)): 8 mg/l 21 d Test Guideline 211
No da	stence and degradabi ata available	lity		
Bioa	ccumulative potential			
Com	ponents:			
Partit	nethasone: ion coefficient: n- ol/water	:	log Pow: 2.11	
	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.

SECTION 14. TRANSPORT INFORMATION

International Re	gulations
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UNRTDG UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(betamethasone)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		

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UN/ID Proper	No. shipping name	:	UN 3082	
·	shipping hame	•	(Betamethasone	nazardous substance, liquid, n.o.s.)
Class	Class		9	
Packin	Packing group		111	
Labels			Miscellaneous	
Packin aircraft	g instruction (cargo)	:	964	
Packin ger airc	g instruction (passen- craft)	:	964	
Enviror	nmentally hazardous	:	yes	
IMDG-	Code			
UN nur		:	UN 3082	
Proper shipping name		:	ENVIRONMENT	ALLY HAZARDOUS SUBSTANCE, LIQUID,
·			N.O.S.	
			(Betamethasone)	
Class		:	9	
Packin	g group	:	111	
Labels		:	9	
EmS C	ode	:	F-A, S-F	
Marine	pollutant	:	yes	

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

Not applicable for product as supplied.

Domestic regulation

TDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Betamethasone)
Class	:	9
Packing group	:	III
Labels	:	9
ERG Code	:	171
Marine pollutant	:	yes(Betamethasone)

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

The ingredients of this product are reported in the following inventories:					
AICS	:	not determined			
DSL	:	not determined			



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SECTION 16. OTHER INFORMATION

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

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/
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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



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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.

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