

Version 1.9	Revision Date: 30.09.2023		S Number: 60219-00010	Date of last issue: 04.04.2023 Date of first issue: 29.01.2019	
SECTION	1. IDENTIFICATION				
Product name		:	Betamethasone	Sodium Phosphate Formulation	
Manu	afacturer or supplier's	deta	ils		
Comp	bany	:	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		
Reco	mmended use of the	chem	ical and restricti	ons on use	
Recommended use Restrictions on use		:	Pharmaceutical Not applicable		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland)
Long-term (chronic) aquatic hazard	:	Category 1
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. H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention:



Version 1.9	Revision Date: 30.09.2023	SDS Number: 3960219-00010	Date of last issue: 04.04.2023 Date of first issue: 29.01.2019
		P202 Do not ha and understood P260 Do not bro P264 Wash skir P270 Do not ea P273 Avoid rele	eathe mist or vapors. In thoroughly after handling. It, drink or smoke when using this product. Ease to the environment. Itective gloves/ protective clothing/ eye protec-
		Response: P308 + P313 IF attention. P391 Collect sp	exposed or concerned: Get medical advice/
		Storage: P405 Store lock	ked up.
		Disposal: P501 Dispose c disposal plant.	of contents/ container to an approved waste

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 combustible dust concentrations in air during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Betamethasone	378-44-9	>= 0,3 -< 1

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.



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.9	30.09.2023	3960219-00010	Date of first issue: 29.01.2019
	mportant symptoms	: May damage th	broughly with water.
	fects, both acute and	Causes damage	e unborn child.
	ed	exposure.	e to organs through prolonged or repeated
	tion of first-aiders to physician	the skin. Dust contact wit First Aid respon and use the rec when the poten	st can cause mechanical irritation or drying of th the eyes can lead to mechanical irritation. ders should pay attention to self-protection, ommended personal protective equipment tial for exposure exists (see section 8). atically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known.
media	•	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
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 do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective 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



Version	Revision Date: 30.09.2023	SDS Number:	Date of last issue: 04.04.2023
1.9		3960219-00010	Date of first issue: 29.01.2019
		For large spills, p containment to k can be pumped, container. Clean up remain absorbent. Local or national disposal of this r employed in the determine which Sections 13 and	e atmosphere in sufficient concentration. provide diking or other appropriate seep material from spreading. If diked material store recovered material in appropriate and materials from spill with suitable I regulations may apply to releases and material, as well as those materials and items cleanup of releases. You will need to a regulations are applicable. 15 of this SDS provide information regarding mational requirements.

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 mist or vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment 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. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. 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 Self-reactive substances and mixtures Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters



sion	Revision Date: 30.09.2023		OS Number: 60219-00010		st issue: 04.04.2023 st issue: 29.01.2019	
						-
Comp	onents		CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Betarr	nethasone		378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
			Further informa	ation: Skin		
				Wipe limit	10 µg/100 cm ²	Internal
Engin	eering measures	:	design and op protect produc Essentially no Use closed pr If handled in a cabinet, fume potential exist	erated in accor cts, workers, an open handling ocessing syster laboratory, use hood, or other	ns or containment teo a properly designed containment device if tion. If this potential d	ciples to chnologies biosafety the
Perso	nal protective equip	nent				
Filt	ratory protection er type protection	:	exposure asse	essment demor I guidelines, us	tilation is not availabl Istrates exposures ou e respiratory protectic	Itside the
Ma	iterial	:	Chemical-resi	stant gloves		
	marks rotection	:	 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. 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. 			ere is a
Skin a	nd body protection	:				
Hygiei	ne measures	:	If exposure to eye flushing s working place When using d Wash contam The effective of engineering co appropriate de industrial hygi	chemical is like ystems and saf o not eat, drink inated clothing operation of a fa ontrols, proper p gowning and d	before re-use. acility should include i bersonal protective ec econtamination proce medical surveillance	the review of quipment, edures,

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Aqueous solution



Versio 1.9	on	Revision Date: 30.09.2023	-	S Number: 0219-00010	Date of last issue: 04.04.2023 Date of first issue: 29.01.2019
	_				
C	Color		:	No data available)
C	Odor		:	No data available	9
C	Odor Th	nreshold	:	No data available)
p	рH		:	No data available	
Ν	Melting	point/freezing point	:	No data available)
	Initial bo range	piling point and boiling	:	No data available	
F	Flash po	oint	:	No data available)
E	Evapora	ation rate	:	No data available)
F	Flamma	ability (solid, gas)	:	May form combusting o	stible dust concentrations in air during proce- r other means.
F	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	•
		explosion limit / Lower bility limit	:	No data available	•
١	Vapor p	ressure	:	No data available)
F	Relative	e vapor density	:	No data available)
F	Relative	e density	:	No data available)
C	Density		:	No data available	9
S	Solubilit Wate	ry(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol/ Autoign	water ition temperature	:	No data available	9
۵	Decomp	position temperature	:	No data available	
١	Viscosit Visco	y osity, kinematic	:	No data available	
E	Explosiv	ve properties	:	Not explosive	
C	Oxidizin	ig properties	:	The substance of	r mixture is not classified as oxidizing.



ersion .9	Revision Date: 30.09.2023		S Number: 50219-00010	Date of last issue: 04.04.2023 Date of first issue: 29.01.2019
Molecu	ılar weight	:	No data availabl	e
Particle	e size	:	Not applicable	
ECTION 1	0. STABILITY AND RI	EAC	ΤΙVΙΤΥ	
	vity cal stability ility of hazardous reac-	:	Stable under not May form combu processing, han	a reactivity hazard. mal conditions. Istible dust concentrations in air during dling or other means. trong oxidizing agents.
Incom	ions to avoid patible materials dous decomposition ts	: : :	Heat, flames and Avoid dust forma Oxidizing agents No hazardous d	ation.
ECTION 1	1. TOXICOLOGICAL I	NFC	ORMATION	
Inform exposi	ation on likely routes of Ire	:	Inhalation Skin contact Ingestion Eye contact	
	toxicity ssified based on availa	ıble i	information.	
<u>Produ</u> Acute	<u>ct:</u> nhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	h : dust/mist
Comp	onents:			
Betam	ethasone:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0	
			LD50 (Mouse): >	4.500 mg/kg
Acute	nhalation toxicity	:	LC50 (Rat): 0,4 n Exposure time: 4	
	orrosion/irritation Issified based on availa onents:	ıble i	information.	
<u>Comp</u>				
	ethasone:			



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.9	30.09.2023	3960219-00010	Date of first issue: 29.01.2019

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Betamethasone:

Species	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Betamethasone:

Routes of exposure	:	Dermal
Species	:	Guinea pig
Result	:	Weak sensitizer

Germ cell mutagenicity

Not classified based on available information.

Components:

Betamethasone:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: In vitro mammalian cell gene mutation test Result: negative
	Test Type: Chromosome aberration test in vitro Result: positive
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Oral Result: equivocal
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified based on available information.



Vers 1.9	sion	Revision Date: 30.09.2023		0S Number: 60219-00010	Date of last issue: 04.04.2023 Date of first issue: 29.01.2019
	May da	ductive toxicity amage the unborn child onents:	I.		
		ethasone:	:	Application Route Developmental To Result: Fetotoxicit Species: Rat Application Route Developmental To Result: Malformat Species: Mouse Application Route Developmental To	oxicity: LOAEL: 0,05 mg/kg body weight ry., Malformations were observed. : Subcutaneous oxicity: LOAEL: 0,42 mg/kg body weight ions were observed.
	Reproo sessm	ductive toxicity - As- ent	:	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:		
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
		0.05 %

LOAEL	:	0.05 %
Application Route Exposure time	:	Skin contact 10 - 30 d
Target Organs	:	Pituitary gland, Immune system, muscle
Species LOAEL Application Route	:	Rat 0.05 % Skin contact



Version 1.9	Revision Date: 30.09.2023	SDS Number: 3960219-00010	Date of last issue: 04.04.2023 Date of first issue: 29.01.2019
	sure time et Organs	: 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	s gland, Adrenal gland
•	ration toxicity lassified based on ava	ailable information.	
Expe	rience with human e	xposure	
Com	ponents:		
Betar	nethasone:		
Inhala Skin o	ation contact		s: Adrenal gland edness, pruritis, Irritation
SECTION	12. ECOLOGICAL IN	IFORMATION	

Ecotoxicity

Components:

Betamethasone: Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Americamysis): > 50 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 34 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity 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.
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0,052 mg/l Exposure time: 32 d Method: OECD Test Guideline 210
		NOEC (Oryzias latipes (Japanese medaka)): 0,07 µg/l



Versio 1.9	n Revision Date: 30.09.2023		0S Number: 60219-00010	Date of last issue: 04.04.2023 Date of first issue: 29.01.2019
			Exposure time: Method: OECD	219 d Test Guideline 229
ac	oxicity to daphnia and quatic invertebrates (C toxicity)		Exposure time:	a magna (Water flea)): 8 mg/l 21 d Test Guideline 211
	-Factor (Chronic aqua xicity)	atic :	1.000	
	ersistence and degra	adability		
В	ioaccumulative pote	ntial		
<u>C</u>	omponents:			
Pa	etamethasone: artition coefficient: n- ctanol/water	:	log Pow: 2,11	
	obility in soil o data available			
-	ther adverse effects o data available			
SECTI	ON 13. DISPOSAL C		ATIONS	

SECTION 13. DISPOSAL CONSIDERATIONS

Do not dispose of waste into sewer.
Dispose of in accordance with local regulations.
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		
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 UN/ID No. Proper shipping name	:	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Betamethasone)
Class	:	9



Version 1.9	Revision Date: 30.09.2023		DS Number: 60219-00010	Date of last issue: 04.04.2023 Date of first issue: 29.01.2019
Labels Packir aircraf Packir	ng instruction (cargo t) ng instruction (passen-	:	III Miscellaneous 964 964	
ger aiı Enviro	nmentally hazardous	:	yes	
UN nu	-Code Imber r shipping name	:	UN 3082 ENVIRONMENTA N.O.S. (Betamethasone)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class Packir Labels EmS (•	: : : :	9 III 9 F-A, S-F	
	e pollutant	÷	yes	

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

Not applicable for product as supplied.

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

Safety, health and environn mixture	nental regulations/legisl	ation specific for the substance or
Argentina. Carcinogenic Sub Registry.	: Not applicable	
Control of precursors and ese preparation of drugs.	: Not applicable	
The ingredients of this proc	duct 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

Further information



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.9	30.09.2023	3960219-00010	Date of first issue: 29.01.2019

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/

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 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.

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