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Betamethasone (0.05%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
5.0	06.04.2024	9374199-00007	Date of first issue: 27.08.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Betamethasone (0.05%) Liquid Formulation
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Pharmaceutical
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	Organon & Co. Shotton Lane NE23 3JU Cramlington NU - Great Britain
	Telephone	:	+44 1 670 59 32 05
	E-mail address of person responsible for the SDS	:	EHSSTEWARD@organon.com

1.4 Emergency telephone number

+1-215-631-6999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure, Category 1 Long-term (chronic) aquatic hazard, Category 1 H360D: May damage the unborn child. H372: Causes damage to organs through prolonged or repeated exposure. H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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Haza	rd pictograms	:		¥
Signa	l word	:	Danger	•
Haza	rd statements	:	H360D H372	May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.
			H410	Very toxic to aquatic life with long lasting effects.
Preca	utionary statements	:	Prevention:	
	-		P201 P264 P273 P280	Obtain special instructions before use. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
			Response:	2 IF expected or concerned: Get modical advice/
			P308 + P31	attention.
			P391	Collect spillage.

Hazardous components which must be listed on the label: betamethasone

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Ethanol#	64-17-5 200-578-6 603-002-00-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 \longrightarrow specific concentra- tion limit Eye Irrit. 2; H319 >= 50 % Eye Irrit. 2; H319 >= 50 %	>= 0.1 - < 1
betamethasone	378-44-9	Acute Tox. 2; H330	>= 0.025 - <

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ersion)	Revision Date: 06.04.2024	SDS Number: 9374199-00007	Date of last issue: 30.09.2023 Date of first issue: 27.08.2021	
		206-825-4	Repr. 1B; H360D0.1STOT RE 1; H372 (Pituitary gland, Immune system, muscle, thymus gland, Blood, Ad- renal gland) Aquatic Chronic 1; H4100.1M-Factor (Chronic aquatic toxicity): 1,0001,000muscle 1; H372 >= 0.01 % STOT RE 1; H372 >= 0.01 % STOT RE 1; H372 	1
Glyce	ances with a workpla rine	56-81-5	>= 50 ·	· < 70
H		200-289-5		
Propy	lene glycol	57-55-6 200-338-0	>= 30 -	• < 50

For explanation of abbreviations see section 16. #: Voluntarily-disclosed substance

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	In the case of accident or if you feel unwell, seek med vice immediately. When symptoms persist or in all cases of doubt seek advice.	
Protection of first-aiders	First Aid responders should pay attention to self-prote and use the recommended personal protective equipr when the potential for exposure exists (see section 8)	nent
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 a	nd plenty

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				Get medical atten Wash clothing be	of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
l	In case	of eye contact	:		ater as a precaution. tion if irritation develops and persists.				
ľ	If swallowed		:	If swallowed, DO Get medical atten Rinse mouth thore					
4.2 M	lost im	portant symptoms a	nd e	effects, both acute	and delayed				
	Risks		:	May damage the	-				
4.3 In	ndicati	on of any immediate	med	dical attention and	I special treatment needed				
	Treatm	-	:		cally and supportively.				
5.1 E	xtingu Suitabl	5: Firefighting mean ishing media e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical					
	Unsuita media	able extinguishing	:	None known.					
5.2 S	pecial	hazards arising from	the	e substance or mix	xture				
S	-	c hazards during fire-	:		pustion products may be a hazard to health.				
	Hazard ucts	ous combustion prod-	:	Carbon oxides					
53 A	5.3 Advice for firefighters								
5		l protective equipment	:		e, wear self-contained breathing apparatus. ective equipment.				
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do				

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		Eva	acuate area.		
SECTION	I 6: Accidental relea	ise meas	sures		
6.1 Perso	nal precautions, prote	ctive equ	uipment and e	emergency procedures	
Perso	nal precautions	Foll	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).		
6.2 Enviro	nmental precautions				
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. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).		
6.3 Metho	ds and material for co	ontainme	nt and cleani	ng up	
Metho	ods for cleaning up	For men be r Cle ben Loc pos emr min Sec	large spills, p nt to keep mat pumped, store an up remainin t. al or national al of this mate ployed in the c le which regula- ctions 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.	

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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 mist or vapours. 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 as-

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Hygier	ne measures	Do not o Take ca environ : If expos flushing place. V nated c The effe enginee appropr industria	ontainer tightly closed. eat, drink or smoke when using this product. are to prevent spills, waste and minimize release to the			
7.2 Condit	ions for safe storage,	including a	uding any incompatibilities			
	rements for storage and containers		n properly labelled containers. Store locked up. Keep closed. Store in accordance with the particular national ions.			
Advice	e on common storage	Strong Self-rea	store with the following product types: oxidizing agents active substances and mixtures c peroxides ives			
-	c end use(s) ic use(s)	: No data	a available			

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
Glycerine	56-81-5	TWA (Mist)	10 mg/m3	GB EH40			
Propylene glycol	57-55-6	TWA (Total va- pour and parti- cles)	150 ppm 474 mg/m3	GB EH40			
		TWA (particles)	10 mg/m3	GB EH40			
Ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	GB EH40			
betamethasone	378-44-9	TWA	1 μg/m3 (OEB 4)	Internal			
	Further infor	Further information: Skin					
		Wipe limit	10 µg/100 cm ²	Internal			

Derived No Effect Level (DNEL):

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Subs	tance name	End Use	Exposure routes	Potential health ef- fects	Value
Prop	ylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
		Workers	Inhalation	Long-term systemic effects	168 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
		Consumers	Inhalation	Long-term systemic effects	50 mg/m3
Glyce	erine	Workers	Inhalation	Long-term local ef- fects	56 mg/m3
		Consumers	Ingestion	Long-term systemic effects	229 mg/kg bw/day
		Consumers	Inhalation	Long-term local ef- fects	33 mg/m3
Etha	nol	Workers	Inhalation	Long-term systemic effects	950 mg/m3
		Workers	Skin contact	Long-term systemic effects	343 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	114 mg/m3
		Consumers	Skin contact	Long-term systemic effects	206 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	87 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Propylene glycol	Fresh water	260 mg/l
	Freshwater - intermittent	183 mg/l
	Marine water	26 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry weight (d.w.)
	Marine sediment	57.2 mg/kg dry weight (d.w.)
	Soil	50 mg/kg dry weight (d.w.)
Glycerine	Fresh water	0.885 mg/l
	Marine water	0.0885 mg/l
	Intermittent use/release	8.85 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	3.3 mg/kg dry weight (d.w.)
	Marine sediment	0.33 mg/kg dry weight (d.w.)
	Soil	0.141 mg/kg dry weight (d.w.)
Ethanol	Fresh water	0.96 mg/l
	Freshwater - intermittent	2.75 mg/l
	Marine water	0.79 mg/l

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П		Sewage treat	ment plant	580 mg/l	
		Fresh water s	ediment	3.6 mg/kg dry weight (d.w.)	
		Marine sedim	ent	2.9 mg/kg dry weight (d.w.)	
		Soil		0.63 mg/kg dry weight (d.w.)	
Π		Oral (Seconda	ary Poisoning)	380 mg/kg food	

8.2 Exposure controls

Engineering measures

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Essentially no open handling permitted.

Use closed processing systems or containment technologies.

If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the potential exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.

Personal protective equipment

Eye/face protection Hand protection	:	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.
-		
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. 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
Respiratory protection	:	contaminated clothing. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	 liquid No data available No data available No data available No data available
рН	: No data available

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	Melting	point/freezing point	:	No data available)
	Initial b	oiling point and boiling	:	No data available)
	range Flash p	oint	:	No data available	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available	
	Density	,	:	No data available)
	Partition octanol	er solubility n coefficient: n-	:	No data available No data available No data available	
	-	position temperature		No data available	
	Viscosi		•		
		osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
9.2 (Other in	formation			
	Flamma	ability (liquids)	:	No data available)
	Molecu	lar weight	:	No data available)
	Particle	size	:	Not applicable	

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SECTION 10: Stability and reactivity

1

10.1 Reactivity						
Not classified as a reactivity hazard.						
10.2 Chemical stability						
Stable under normal conditions.						
10.3 Possibility of hazardous react						
-						
Hazardous reactions	: Can react with strong oxidizing agents.					
10.4 Conditions to avoid						
Conditions to avoid	: None known.					
10.5 Incompatible materials						
Materials to avoid	: Oxidizing agents					
	5 5					
10.6 Hazardous decomposition pro	oducts					
No hazardous decomposition pr						
SECTION 11: Toxicological info	ormation					
11.1 Information on toxicological e						
Information on likely routes of :						
exposure	Skin contact					
	Ingestion Eye contact					
	Lyc condet					
Acute toxicity						
Not classified based on availabl	e information.					
Components:						
Ethanol:						
Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg					
	Method: OECD Test Guideline 401					
Acute inhalation toxicity :	LC50 (Rat): 124.7 mg/l Exposure time: 4 h					
	Test atmosphere: vapour					

betamethasone:

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

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Glyc	erine:				
Acute	e oral toxicity	:	LD50 (Rat): > 5,0	000 mg/kg	
Acute	e dermal toxicity	:	LD50 (Guinea pig): > 5,000 mg/kg		
Prop	ylene glycol:				
Acute	e oral toxicity	:	LD50 (Rat): 22,0	00 mg/kg	
Acute	e inhalation toxicity	:	LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist		
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity		
-	corrosion/irritation	labla	in famme of in a		
	classified based on ava	liable	information.		
	ponents:				
Etha			Dabbit		
Spec Meth Resu	od	:	Rabbit OECD Test Guid No skin irritation	eline 404	
beta	methasone:				
Spec Resu		:	Rabbit Mild skin irritation		
Glyc	erine:				
Spec Resu	sies Ilt	:	Rabbit No skin irritation		
Prop	ylene glycol:				
Spec	cies	:	Rabbit		
Meth Resu		:	OECD Test Guid No skin irritation	eline 404	
Serio Not c	ous eye damage/eye i classified based on ava ponents:		on		
Spec		:	Rabbit		
Meth Resu		:	OECD Test Guid Irritation to eyes,	eline 405 reversing within 21 days	
			-		

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bet	amethasone:			
Spe Res	ecies sult	: Rabb : No e	oit ye irritation	
Gly	cerine:			
Spe Res	ecies sult	: Rabb : No e	oit ye irritation	
Pro	pylene glycol:			
Met	Species:RabbitMethod:OECD Test Guideline 405Result:No eye irritation			
Res	spiratory or skin sensit	isation		
	n sensitisation classified based on avai	lable inform	nation.	
	spiratory sensitisation classified based on avai	lable inform	nation.	
<u>Co</u>	mponents:			
Eth	anol:			
Exp	at Type posure routes poies sult		contact se	assay (LLNA)
bet	amethasone:			
Exp	oosure routes ecies		nal ea pig k sensitizer	
Pro	pylene glycol:			
Tes Exp	ot Type posure routes pocies	: Skin	misation Tes contact ea pig tive	t
Not	rm cell mutagenicity classified based on avai	lable inform	nation.	
	<u>nponents:</u>			
	anol: notoxicity in vitro		Type: In vitro Ilt: negative	o mammalian cell gene mutation test
		Test	Type: Bacter	rial reverse mutation assay (AMES)
			12 / 24	

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I			Result: negative	
Genc	otoxicity in vivo	:	Test Type: Roder Species: Mouse Application Route Result: equivocal	nt dominant lethal test (germ cell) (in vivo)
beta	methasone:			
Geno	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: positive	nosome aberration test in vitro
Genc	otoxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: equivocal	
Germ sessi	n cell mutagenicity- As- ment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ
Glvc	erine:			
	otoxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chron Result: negative	nosome aberration test in vitro
			Test Type: DNA of thesis in mammal Result: negative	lamage and repair, unscheduled DNA syn- ian cells (in vitro)
Prop	ylene glycol:			
	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chron Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473
Geno	otoxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /)

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			Application Route Result: negative	: Intraperitoneal injection
Car	cinogenicity			
	classified based on availa	ble	information.	
<u>Cor</u>	nponents:			
Gly	cerine:			
Spe		:	Rat	
	lication Route	:	Ingestion	
Exp Res	osure time	÷	2 Years negative	
ixes	un	•	negative	
Pro	pylene glycol:			
Spe	cies	:	Rat	
Арр	lication Route	:	Ingestion	
	osure time	:	2 Years	
Res	uit	•	negative	
<u>Cor</u> Eth	[,] damage the unborn child nponents: anol: cts on fertility		Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study : Ingestion
beta	amethasone:			
Effe mer	cts on foetal develop- ht	:		: Intramuscular oxicity: LOAEL: 0.05 mg/kg body weight ty, Malformations were observed.
				: Subcutaneous oxicity: LOAEL: 0.42 mg/kg body weight ions were observed.
				: Intramuscular oxicity: LOAEL: 1 mg/kg body weight ions were observed.
	productive toxicity - As- sment	:	Clear evidence of animal experimen	adverse effects on development, based on ts.

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Glyce	erine:				
Effec	ts on fertility	Species: Ra	Route: Ingestion		
Effec ment	ts on foetal develop-	Species: Ra Application	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative		
Prop	ylene glycol:				
Effec	ts on fertility	Species: Mo Application F	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Result: negative		
Effec ment	ts on foetal develop-	Species: Mo Application F	Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative		
STO	T - single exposure				
Not c	lassified based on ava	lable information.			
	T - repeated exposure				
	es damage to organs t	hrough prolonged o	or repeated exposure.		
<u>Com</u>	ponents:				
	methasone:				
Targe	et Organs		 Pituitary gland, Immune system, muscle, thymus gland, Blood Adrenal gland 		

	Adrenal gland
Assessment	: Causes damage to organs through prolonged or repeated
	exposure.

Repeated dose toxicity

Components:

Ethanol:

Species NOAEL LOAEL Application Route Exposure time	:	Rat
NOAEL	:	1,280 mg/kg
LOAEL	:	3,156 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
		-

betamethasone:

Species	: Rabbit
LÕAEL	: 0.05 %
Species LOAEL Application Route	: Skin contact

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	sure time et Organs	: 10 - 30 d : Pituitary gland, Immune system, muscle
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 gland, Adrenal gland
Speci NOAI LOAE Applic	EL	: Rat : 0.167 mg/l : 0.622 mg/l : inhalation (dust/mist/fume) : 13 Weeks
		: Rat : 8,000 - 10,000 mg/kg : Ingestion : 2 yr
	ies EL cation Route sure time	 Rabbit 5,040 mg/kg Skin contact 45 Weeks
Prop	ylene glycol:	
Speci NOAI Applie Expos		 Rat, male >= 1,700 mg/kg Ingestion 2 yr
Not c	r <mark>ation toxicity</mark> lassified based on ava rience with human e	
-	ponents:	

betamethasone:

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Inhal	ation	: Target Organs:	Adrenal gland
Skin	contact	: Symptoms: Rec	Iness, pruritis, Irritation

SECTION 12: Ecological information

12.1 Toxicity

Components:

Ethanol:

Ethanol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia (water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h
		EC10 (Chlorella vulgaris (Fresh water algae)): 11.5 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): 6,500 mg/l Exposure time: 16 h
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 9.6 mg/l Exposure time: 9 d Species: Daphnia magna (Water flea)
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: 0.052 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210
		NOEC: 0.07 μg/l Exposure time: 219 d

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				Species: Oryzias Method: OECD Te	atipes (Japanese medaka) est Guideline 229	
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	NOEC: 8 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211			
	M-Factor (Chronic aquatic : toxicity)		:	1,000		
	Glyceri	ine:				
	Toxicity		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 54,000 mg/l b h	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 1,955 mg/l s h	
	Toxicity	to microorganisms	:	: NOEC (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8		
	Dropyl					
	Toxicity	ene glycol: y to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l 5 h	
		to daphnia and other invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 18,340 mg/l 8 h	
	Toxicity plants	to algae/aquatic	:	ErC50 (Skeletone Exposure time: 72 Method: OECD Te		
	Toxicity	to microorganisms	:	NOEC (Pseudomo Exposure time: 18	onas putida): > 20,000 mg/l 8 h	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 13,020 mg Exposure time: 7 Species: Ceriodar		
12.2	Persist	tence and degradabili	ity			
	Compo	onents:				
	Ethano	d:				
	Biodegi	radability	:	Result: Readily bio Biodegradation: 8 Exposure time: 20	34 %	
	Glyceri	ine:				
II	Biodeg	radability	:	Result: Readily bi	odegradable.	

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			Biodegradation: Exposure time: 3 Method: OECD T		
	ylene glycol:				
Biodegradability		:	Result: Readily biodegradable. Biodegradation: 98.3 % Exposure time: 28 d Method: OECD Test Guideline 301F		
12.3 Bioa	ccumulative potential				
Com	oonents:				
Ethar	-				
	ion coefficient: n- ol/water	:	log Pow: -0.35		
	nethasone:				
Partition coefficient: n- octanol/water		:	log Pow: 2.11		
Glycerine: Partition coefficient: n- octanol/water		:	log Pow: -1.75		
Propylene glycol: Partition coefficient: n- octanol/water		:	log Pow: -1.07 Method: Regulation (EC) No. 440/2008, Annex, A.8		
12.4 Mobi No da	lity in soil ata available				
12.5 Resu	lts of PBT and vPvB a	isse	ssment		
Prod	uct:				
Asses	ssment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of	
12.6 Other adverse effects					
Prod	uct:				
Endo tial	crine disrupting poten-	:	ered to have end	nixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).	

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
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

14.1 UN number

IMDG

ADN	:	UN 3082		
ADR	:	UN 3082		
RID	:	UN 3082		
IMDG	:	UN 3082		
ΙΑΤΑ	:	UN 3082		
14.2 UN proper shipping name				
ADN	:	ENVIRONMENTALL N.O.S. (betamethasone)	Y HAZARDOUS SUBSTANCE, LIQUID,	
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (betamethasone)		
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (betamethasone)		
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (betamethasone)		
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (betamethasone)		
14.3 Transport hazard class(es)				
		Class	Subsidiary risks	
ADN	:	9		
ADR	:	9		
RID	:	9		

: 9

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IA	ТА	: 9	
14.4 Pa	acking group		
Pa Cl Ha	DN acking group assification Code azard Identification Number abels	: III : M6 : 90 : 9	
Pa Cl Ha La	DR acking group assification Code azard Identification Number abels unnel restriction code	: III : M6 : 90 : 9 : (-)	
CI Ha	D acking group assification Code azard Identification Number abels	: III : M6 : 90 : 9	
Pa La	IDG acking group abels nS Code	: III : 9 : F-A, S-F	
Pa air Pa Pa	TA (Cargo) acking instruction (cargo rcraft) acking instruction (LQ) acking group ubels	: 964 : Y964 : III : Miscellaneous	
Pa ge Pa Pa	TA (Passenger) acking instruction (passen- er aircraft) acking instruction (LQ) acking group ubels	: 964 : Y964 : III : Miscellaneous	
14.5 Eı	nvironmental hazards		
	DN nvironmentally hazardous	: yes	
	DR nvironmentally hazardous	: yes	
RI Er	D hvironmentally hazardous	: yes	
	IDG arine pollutant	: yes	
IA	TA (Passenger) nvironmentally hazardous	: yes	

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IATA (Cargo)

Environmentally hazardous : yes

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks	: Not applicable for product as supplied.
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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restriction	ns (Annex 17)	:	Number on list 3 Substance(s) or r here according to in the regulation, use/purpose or th restriction. Please tions in correspondetermine whether	triction for the fol- build be considered: nixture(s) are listed their appearance irrespective of their the conditions of the e refer to the condi- nding Regulation to er an entry is appli- ng on the market or
UK REACH Candidate list of concern (SVHC) for Authoria	, ,	:	Not applicable	
	utants Regulations (retained	:	Not applicable	
Regulation (EC) No 1005/20 plete the ozone layer	009 on substances that de-	:	Not applicable	
UK REACH List of substances subject to authorisation (Annex XIV)		:	Not applicable	
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation		:	Not applicable	
	azards Regulations 2015 (CC	DMA	.H)	
-	-		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS		100 t	200 t

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements

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relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information			
Other information :	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.		
Full text of H-Statements			
H225 :	Highly flammable liquid and vapour.		
H319 :	Causes serious eye irritation.		
H330 :	Fatal if inhaled.		
H360D :	May damage the unborn child.		
H372 :	Causes damage to organs through prolonged or repeated		
	exposure.		
H410 :	Very toxic to aquatic life with long lasting effects.		
Full text of other abbreviations			
Acute Tox. :	Acute toxicity		
Aquatic Chronic :	Long-term (chronic) aquatic hazard		
Eye Irrit.	Eye irritation		
Flam. Liq. :	Flammable liquids		
Repr. :	Reproductive toxicity		
STOT RE :	Specific target organ toxicity - repeated exposure		
GB EH40 :	UK. EH40 WEL - Workplace Exposure Limits		
GB EH40 / TWA :	Long-term exposure limit (8-hour TWA reference period)		
Waterways; ADR - Agreement Road; AIIC - Australian Inventory ing of Materials; bw - Body weigh tion (EC) No 1272/2008; CMR - of the German Institute for Stand European Chemicals Agency; EC	cerning the International Carriage of Dangerous Goods by Inland concerning the International Carriage of Dangerous Goods by y of Industrial Chemicals; ASTM - American Society for the Test- ht; CLP - Classification Labelling Packaging Regulation; Regula- Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard dardisation; DSL - Domestic Substances List (Canada); ECHA - C-Number - European Community number; ECX - Concentration		

European Chemicals Agency; EC-Number - European Community number; 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; 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

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- 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

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

Classification of the m	ixture:	Classification procedure:
Repr. 1B	H360D	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Chronic 1	H410	Calculation method

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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 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.

GB / EN