

Vers 4.1	ion	Revision Date: 2023/09/30		S Number: 32151-00015	Date of last issue: 2023/04/04 Date of first issue: 2017/05/17			
1. PI	1. PRODUCT AND COMPANY IDENTIFICATION							
	Product name		:	Betamethasone (0.05%) Cream Formulation				
	Manufa	acturer or supplier's c	letai	ls				
	Compa	ny	:	Organon & Co.				
	Addres	S	:	JL Raya Pandaa Pandaan, Jawa T				
	Telepho	one	:	+1-551-430-6000)			
	Emerge	ency telephone number	r:	+1-215-631-6999)			
	E-mail a	address	:	EHSSTEWARD@	⊉organon.com			
	Recom	mended use of the cl mended use ions on use		ical and restrictic Pharmaceutical Not applicable	ons on use			

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:



e use. ecautions have been read mist/ vapours/ spray. lling. n using this product. it. ve clothing/ eye protec-
cautions have been read mist/ vapours/ spray. lling. h using this product. ht.
d: Get medical advice/
o an approved waste
Concentration (% w/w)
>= 20 -<= 30

Chemical name	CAS-No.	Concentration (% w/w)
Petrolatum	8009-03-8	>= 20 -<= 30
Glyceryl monostearate	123-94-4	3
4-Chloro-3-methylphenol	59-50-7	0.1
betamethasone	378-44-9	0.064

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.



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In ca	se of eye contact	:		rater as a precaution.			
If swa	allowed	:	If swallowed, DO Get medical atten				
and e delay		:	May damage the	oughly with water. unborn child. o organs through prolonged or repeated			
	ection of first-aiders	:	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).				
	s to physician GHTING MEASURES	•		cally and supportively.			
Suita	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C				
Unsu medi	uitable extinguishing	:	Dry chemical None known.				
	ific hazards during fire-	:		n explosive mixtures with air. Dustion products may be a hazard to health.			
Haza ucts	ardous combustion prod-	:	Carbon oxides Silicon oxides Formaldehyde				
Spec ods	ific 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			
	cial protective equipment refighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.			
6. ACCID	ENTAL RELEASE MEA	SUF	RES				
tive e	onal precautions, protec- equipment and emer- ey procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).			
Envir	ronmental precautions	:	Retain and dispos	he environment. akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages			

Local authorities should be advised if significant spillages
cannot be contained.Methods and materials for
containment and cleaning up:Sweep up or vacuum up spillage and collect in suitable con-
tainer for disposal.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items



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		mine which Sections 13	the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.				
7. HANDL	ING AND STORAGE						
Tech	nical measures		ering measures under EXPOSURE /PERSONAL PROTECTION section.				
Local	/Total ventilation		If sufficient ventilation is unavailable, use with local exhaust				
Advic	e on safe handling	: Do not get o Do not breat Do not swall Avoid contac Wash skin th Handle in ac practice, bas sessment Keep contain Do not eat, o Take care to environment	t with eyes. horoughly after handling. cordance with good industrial hygiene and safety sed on the results of the workplace exposure as- her tightly closed. drink or smoke when using this product. prevent spills, waste and minimize release to the				
	itions for safe storage rials to avoid	 Do not breathe decomposition products. Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulation Do not store with the following product types: Strong oxidizing agents 					

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Petrolatum	8009-03-8	NAB (Mist)	5 mg/m3	ID OEL
		PSD (Mist)	10 mg/m3	ID OEL
		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-		
		late matter)		
Glyceryl monostearate	123-94-4	NAB	10 mg/m3	ID OEL
	Further information: Not classified as carcinogenic to humans. No			
	enough data to classify these materials as carcinogenic to hu-			enic to hu-
	mans or anima	ls	-	
	TWA (Inha		10 mg/m3	ACGIH
		able particu-		
		late matter)		

Components with workplace control parameters



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		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
4-Chloro-3-methylphenol	59-50-7	TWA	200 µg/m3 (OEB 2)	Internal
		Wipe limit	100 µg/100 cm2	Internal
betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
	Further information: Skin			
		Wipe limit	10 µg/100 cm ²	Internal

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type	Control parame-	Basis	
		(Form of	ters / Permissible		
		exposure)	concentration		
Formaldehyde	50-00-0	PSD	0.3 ppm	ID OEL	
			ensitization, Respirato	ory Sensitiza-	
	tion, Suspecte	d human carcinc			
		TWA	0.1 ppm	ACGIH	
		STEL	0.3 ppm	ACGIH	
Engineering measures	are required to the compound from a closed stationary cor All engineerin design and op protect produc Essentially no Use closed pr	o control at sourd system, packou stainer, ventilated g controls should berated in accord cts, workers, and o open handling p	table for controlling c ce and to prevent mig areas (e.g., vacuum t head with inflatable d enclosure, etc.). d be implemented by dance with GMP princ the environment. permitted.	gration of conveying seal from facility ciples to	
Personal protective equipmer	nt				
Respiratory protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates, inorganic gas/vapour and organic vapour type				
Filter type					
Hand protection					
Material	Chemical-resi	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. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- 				



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Hygie	ne measures	Use appropriate contaminated c : If exposure to c eye flushing sys ing place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, jowning and decontamination procedures, ne monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	cream
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	:	> 93.3 °C
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available



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	Solubili				
	Wat	er solubility	:	No data available	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle	e size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	Not classified as a reactivity hazard. Stable under normal conditions. Vapours may form explosive mixture with air. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevat temperatures.	ted
Conditions to avoid Incompatible materials	None known. Oxidizing agents	
Hazardous decomposition pr Thermal decomposition	lucts Formaldehyde	

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Skin contact
exposure		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Components:

Petrolatum:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
	Method: OECD Test Guideline 401
	Remarks: Based on data from similar materials



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e dermal toxicity	:	Method: OECD Assessment: Th toxicity	,000 mg/kg Test Guideline 402 ne substance or mixture has no acute dermal d on data from similar materials
ervl monostearate:			
e oral toxicity	:	Method: OECD	,000 mg/kg Test Guideline 401 d on data from similar materials
e dermal toxicity	:		,000 mg/kg d on data from similar materials
nloro-3-methylphenol:			
e oral toxicity		LD50 (Mouse):	600 mg/kg
e inhalation toxicity	:	LC50 (Rat): > 2 Exposure time: Test atmospher	4 h
e dermal toxicity	:	LD50 (Rat): > 5	,000 mg/kg
methasone:			
e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
		LD50 (Mouse):	> 4,500 mg/kg
e inhalation toxicity	:	LC50 (Rat): 0.4 Exposure time:	•
corrosion/irritation			
	ilable	information.	
<u>iponents:</u>			
olatum:			
	:		ideline 404
ult	:	No skin irritation	ו
arks	:	Based on data	from similar materials
eryl monostearate:			
cies	:	Rabbit	
ult	:	No skin irritation	
	e oral toxicity e dermal toxicity e dermal toxicity e oral toxicity e inhalation toxicity e inhalation toxicity e dermal toxicity e dermal toxicity e oral toxicity e inhalation toxicity e inhalation toxicity e inhalation toxicity corrosion/irritation classified based on ava ponents: olatum: cies nod ult arks eeryl monostearate: cies	e dermal toxicity : e oral toxicity : e dermal toxicity : e oral toxicity : e inhalation toxicity : e dermal toxicity : e dermal toxicity : e oral toxicity : e oral toxicity : e inhalation toxicity	Method: OECD Assessment: Ti toxicity Remarks: Base eeryl monostearate: e oral toxicity e oral toxicity : LD50 (Rat): > 5 Method: OECD Remarks: Base e dermal toxicity : LD50 (Rat): > 2 Remarks: Base e dermal toxicity : LD50 (Rat): > 2 Remarks: Base e oral toxicity : LD50 (Mouse): e inhalation toxicity : LD50 (Rat): > 2 Exposure time: Test atmospher e dermal toxicity : LD50 (Rat): > 5 methasone: e oral toxicity : LD50 (Rat): > 5 inhalation toxicity : LD50 (Rat): > 5 : LD50 (Mouse): e inhalation toxicity : LD50 (Mouse): : Into information. : Into information. : Into information. : Into information. : Into informatino. : Into informati

4-Chloro-3-methylphenol:

Remarks

: Based on data from similar materials



rsion	Revision Date: 2023/09/30	SDS Number: 1682151-00015	Date of last issue: 2023/04/04 Date of first issue: 2017/05/17
Specie	25	: Rabbit	
Metho		: OECD Test Gu	ideline 404
Result			1 to 4 hours of exposure
hotom	nethasone:		
		D 11 %	
Specie Result		: Rabbit : Mild skin irritati	on
	us eye damage/eye		
	assified based on ava	illable information.	
	oonents:		
	latum:	D 11 %	
Specie		: Rabbit	
Result Metho		: No eye irritation : OECD Test Gu	
Rema			from similar materials
itema		. Dased on data	
-	ryl monostearate:		
Specie		: Rabbit	
Result		: No eye irritation	
Rema	rks	: Based on data	from similar materials
4-Chl	oro-3-methylphenol		
Specie		: Rabbit	
Result		: Irreversible effe	ects on the eye
Metho	d	: OECD Test Gu	ideline 405
betam	nethasone:		
Specie		: Rabbit	
Result		: No eye irritation	1
Door:	ratory or akin asso	tication	
-	ratory or skin sensi	แอสแบท	
•	sensitisation assified based on ava	ilable information	
-	ratory sensitisation assified based on ava	ilable information.	
Comp	oonents:		
Petro	latum:		
Test T	ype	: Buehler Test	
Expos	sure routes	: Skin contact	
Specie	es	: Guinea pig	
Result		: negative	, , , , , , , , , , , , , , , , , , ,
	rks		from similar materials



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Glyce	eryl monostearate:		
Test 1	Гуре	: Buehler Test	
	sure routes	: Skin contact	
Speci		: Guinea pig	
Resul Rema		: negative : Based on data	from similar materials
4-Chl	oro-3-methylphenol	:	
Test 7	Гуре	: Maximisation T	est
	sure routes	: Skin contact	
Speci	es	: Guinea pig	
Asses	ssment	: Probability or e rate in humans	vidence of low to moderate skin sensitisation
betan	nethasone:		
	sure routes	: Dermal	
Speci		: Guinea pig	
Resul	t	: Weak sensitize	r
Roour			
Germ	cell mutagenicity assified based on ava	ailable information.	
Germ Not cl Comp	assified based on ava <u> conents:</u>	ailable information.	
Germ Not cl <u>Comp</u> Petro	assified based on ava ponents: latum:		
Germ Not cl <u>Comp</u> Petro	assified based on ava <u> conents:</u>	: Test Type: Chr Result: negativ	
Germ Not cl <u>Comp</u> Petro	assified based on ava ponents: latum:	: Test Type: Chr Result: negativ	
Germ Not cl Comp Petro Genot	assified based on ava ponents: latum:	: Test Type: Chr Result: negativ Remarks: Base : Test Type: Mar	e ed on data from similar materials nmalian erythrocyte micronucleus test (in vive
Germ Not cl Comp Petro Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro	 Test Type: Chr Result: negativ Remarks: Base Test Type: Mar cytogenetic ass 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say)
Germ Not cl Comp Petro Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro	 Test Type: Chr Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e
Germ Not cl Comp Petro Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro	 Test Type: Chr Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rou Method: OECD 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e ute: Intraperitoneal injection 9 Test Guideline 474
Germ Not cl Comp Petro Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro	 Test Type: Chr Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negativ 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e ute: Intraperitoneal injection 9 Test Guideline 474
Germ Not cl Comp Petro Genot	assified based on ava <u>ponents:</u> latum: toxicity in vitro toxicity in vivo	 Test Type: Chr Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negativ 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e ute: Intraperitoneal injection o Test Guideline 474 e
Germ Not cl Comp Petro Genot Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro toxicity in vivo	 Test Type: Chr Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negativ Remarks: Base 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e ute: Intraperitoneal injection o Test Guideline 474 e ed on data from similar materials
Germ Not cl Comp Petro Genot Genot	assified based on ava <u>ponents:</u> latum: toxicity in vitro toxicity in vivo	 Test Type: Chr Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negativ Remarks: Base Test Type: Chr 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in viv say) e ute: Intraperitoneal injection o Test Guideline 474 e ed on data from similar materials omosome aberration test in vitro
Germ Not cl Comp Petro Genot Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro toxicity in vivo	 Test Type: Chr Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negativ Remarks: Base Test Type: Chr 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e ute: Intraperitoneal injection o Test Guideline 474 e ed on data from similar materials omosome aberration test in vitro o Test Guideline 473
Germ Not cl Comp Petro Genot Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro toxicity in vivo	 Test Type: Chr. Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negativ Remarks: Base Test Type: Chr. Method: OECD Result: negativ 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e ute: Intraperitoneal injection o Test Guideline 474 e ed on data from similar materials omosome aberration test in vitro o Test Guideline 473
Germ Not cl Comp Petro Genot Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro toxicity in vivo	 Test Type: Chr. Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rot Method: OECD Result: negativ Remarks: Base Test Type: Chr Method: OECD Result: negativ Remarks: Base 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e ute: Intraperitoneal injection o Test Guideline 474 e ed on data from similar materials omosome aberration test in vitro o Test Guideline 473 e
Germ Not cl Comp Petro Genot Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro toxicity in vivo	 Test Type: Chr. Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rot Method: OECD Result: negativ Remarks: Base Test Type: Chr. Method: OECD Result: negativ Remarks: Base Test Type: Bac Method: OECD 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e ute: Intraperitoneal injection o Test Guideline 474 e ed on data from similar materials omosome aberration test in vitro o Test Guideline 473 e ed on data from similar materials eterial reverse mutation assay (AMES) o Test Guideline 471
Germ Not cl Comp Petro Genot Genot	assified based on ava <u>conents:</u> latum: toxicity in vitro toxicity in vivo	 Test Type: Chr Result: negativ Remarks: Base Test Type: Mar cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negativ Remarks: Base Test Type: Chr Method: OECD Result: negativ Remarks: Base Test Type: Base Test Type: Base Test Type: Base Test Type: Base 	e ed on data from similar materials mmalian erythrocyte micronucleus test (in vive say) e ute: Intraperitoneal injection o Test Guideline 474 e ed on data from similar materials omosome aberration test in vitro o Test Guideline 473 e ed on data from similar materials eterial reverse mutation assay (AMES) o Test Guideline 471



5-3-methylphenol: icity in vitro :hasone: icity in vitro	:	Result: negative Remarks: Based	o mammalian cell gene mutation test on data from similar materials rial reverse mutation assay (AMES)
icity in vitro		Remarks: Based Test Type: Bacter	
icity in vitro			ial reverse mutation assay (AMES)
hasone:			ial reverse mutation assay (AMES)
	:		
icity 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
icity in vivo	:	cytogenetic assay Species: Mouse	
II mutagenicity - nent	:	Weight of evidend cell mutagen.	e does not support classification as a gern
genicity sified based on availa	ble	information.	
nents:			
um:			
	:	Rat	
	:		
	:	negative	
uctive toxicity nage the unborn child.			
nents:			
um:			
on fertility	:	test Species: Rat	duction/Developmental toxicity screening
	Il mutagenicity - nent genicity sified based on availa <u>nents:</u> um: on Route e time uctive toxicity nage the unborn child <u>nents:</u> um:	Il mutagenicity	Result: negative Test Type: Chrom Result: positive icity in vivo : Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: equivocal additioned Result: equivocal additioned Result: equivocal interventioned result: equivocal additioned Result: equivocal additioned additioned Result: equivocal additioned additioned Result: equivocal additioned



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		I	Remarks: Base	ed on data from similar materials
Effe mer	ects on foetal develop- nt	: / 	Species: Rat Application Rou Result: negativ	oryo-foetal development ute: Skin contact e ed on data from similar materials
Gly	ceryl monostearate:			
Effe	ects on fertility		eproduction/de Species: Rat Application Rou Method: OECD Result: negativ	Test Guideline 422
Effe mer	ects on foetal develop- nt		eproduction/de Species: Rat Application Rou Method: OECD Result: negativ	Test Guideline 422
4-C	hloro-3-methylphenol:			
Effe	ects on fertility		Fest Type: One Species: Rat Application Rot Result: negativ	
Effe mer	ects on foetal develop- nt	t	Fest Type: Rep est Species: Rat Application Rot Result: negativ	
beta	amethasone:			
Effe mer	ects on foetal develop- nt		Developmental	t ute: Intramuscular Toxicity: LOAEL: 0.05 mg/kg body weight icity, Malformations were observed.
		/	Developmental	ute: Subcutaneous Toxicity: LOAEL: 0.42 mg/kg body weight nations were observed.
			Species: Mous Application Ro	e ute: Intramuscular



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				Toxicity: LOAEL: 1 mg/kg body weight ations were observed.
Repro sessr	oductive toxicity - As- nent	:	Clear evidence animal experim	of adverse effects on development, based or ents.
STOT	- single exposure			
Not c	lassified based on avai	lable	information.	
<u>Com</u>	ponents:			
4-Chl	oro-3-methylphenol:			
	ssment	:	May cause resp	viratory irritation.
	- repeated exposure			
	es damage to organs (l gland) through prolong			ne system, muscle, thymus gland, Blood, Ad-
	- /	eu U	repeated expos	urc.
	oonents:			
	nethasone:			
Targe	et Organs	:	Pituitary gland, Adrenal gland	Immune system, muscle, thymus gland, Bloo
Asses	ssment	:		e to organs through prolonged or repeated
Repe	ated dose toxicity			
Com	oonents:			
Petro	latum:			
Speci		:	Rat	
NOA		:	5,000 mg/kg	
	cation Route sure time	:	Ingestion 2 yr	
			-	
-	eryl monostearate:			
~ ·		:	Rat	
Speci	=L	:	>= 12,500 mg/k Ingestion	g
NOAE	pation Pouto		11065000	
NOAE Applic	cation Route sure time	:		
NOAE Applic	sure time	:	84 Days	from similar materials
NOAE Applic Expos Rema	sure time	:	84 Days	from similar materials
NOAE Applic Expos Rema	sure time arks oro-3-methylphenol:	:	84 Days	irom similar materials
NOAE Applic Expos Rema 4-Chl Speci NOAE	sure time arks oro-3-methylphenol: es EL	:	84 Days Based on data Rat 200 mg/kg	from similar materials
NOAE Applic Expose Rema 4-Chl Speci NOAE LOAE	sure time arks oro-3-methylphenol: es EL		84 Days Based on data Rat	from similar materials



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betar	nethasone:		
Speci		: Rabbit	
LOAE		: 0.05 %	
Applie	cation Route	: Skin contact	
	sure time	: 10 - 30 d	
Targe	et Organs	: Pituitary gland,	Immune system, muscle
Speci		: Rat	
LOAE		: 0.05 %	
	cation Route	: Skin contact : 8 Weeks	
	sure time et Organs	: thymus gland	
0	Ū		
Speci LOAE		: Mouse : 0.1 %	
-	cation Route	: Skin contact	
	sure time	: 8 Weeks	
	et Organs	: thymus gland	
Speci	ies	: Dog	
LÖAE	EL	: 0.05 mg/kg	
	cation Route	: Oral	
Expo	sure time	: 28 d	
	et Organs	: Blood, thymus	gland, Adrenal gland
Targe	et Organs	: Blood, thymus	gland, Adrenal gland
Targe Aspir	-		gland, Adrenal gland
Targe Aspi i Not c	ration toxicity	able information.	gland, Adrenal gland
Targe Aspin Not c Expe	ration toxicity lassified based on avail	able information.	gland, Adrenal gland
Targe Aspin Not c Expe <u>Com</u>	ration toxicity lassified based on availa rience with human exp	able information.	gland, Adrenal gland
Targe Aspin Not c Expe <u>Com</u> betar	ration toxicity lassified based on availa rience with human exp ponents: nethasone:	able information.	
Targe Aspin Not c Expe <u>Com</u> betar Inhala	ration toxicity lassified based on availa rience with human exp ponents: nethasone:	able information. Dosure : Target Organs:	
Targe Aspin Not c Expe Com betar Inhala Skin d	ration toxicity lassified based on availa rience with human exp ponents: nethasone: ation	able information. Dosure : Target Organs: : Symptoms: Ref	Adrenal gland
Aspin Not c Expe Com betar Inhala Skin o	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO	able information. Dosure : Target Organs: : Symptoms: Ref	Adrenal gland
Aspin Not c Expe Com betar Inhala Skin o 12. ECOL	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO	able information. Dosure : Target Organs: : Symptoms: Ref	Adrenal gland
Aspin Not c Expe <u>Com</u> betar Inhala Skin o 12. ECOL Ecoto <u>Com</u>	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO oxicity ponents:	able information. Dosure : Target Organs: : Symptoms: Ref	Adrenal gland
Aspin Not c Expe <u>Com</u> betar Inhala Skin o 12. ECOL Ecoto <u>Com</u>	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO	able information. Dosure : Target Organs: : Symptoms: Ref	Adrenal gland
Aspin Not c Expe <u>Comp</u> betar Inhala Skin o 12. ECOL Ecoto <u>Comp</u> Petro	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO oxicity ponents:	able information. Dosure : Target Organs: : Symptoms: Red N : LL50 (Pimepha	Adrenal gland dness, pruritis, Irritation les promelas (fathead minnow)): > 100 mg/l
Aspin Not c Expe <u>Comp</u> betar Inhala Skin o 12. ECOL Ecoto <u>Comp</u> Petro	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO oxicity ponents:	able information. Dosure : Target Organs: : Symptoms: Red N : LL50 (Pimepha Exposure time:	Adrenal gland dness, pruritis, Irritation les promelas (fathead minnow)): > 100 mg/l 96 h
Aspin Not c Expe <u>Comp</u> betar Inhala Skin o 12. ECOL Ecoto <u>Comp</u> Petro	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO oxicity ponents:	able information. Dosure : Target Organs: : Symptoms: Red N : LL50 (Pimepha Exposure time: Test substance	Adrenal gland dness, pruritis, Irritation les promelas (fathead minnow)): > 100 mg/l 96 h : Water Accommodated Fraction
Aspin Not c Expe <u>Comp</u> betar Inhala Skin o 12. ECOL Ecoto <u>Comp</u> Petro	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO oxicity ponents:	able information. Dosure : Target Organs: : Symptoms: Real N : LL50 (Pimepha Exposure time: Test substance Method: OECD	Adrenal gland dness, pruritis, Irritation les promelas (fathead minnow)): > 100 mg/l 96 h
Aspin Not c Expe <u>Comp</u> betar Inhala Skin o 12. ECOL Ecoto <u>Comp</u> Petro	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO oxicity ponents:	able information. Dosure : Target Organs: : Symptoms: Real N : LL50 (Pimepha Exposure time: Test substance Method: OECD	Adrenal gland dness, pruritis, Irritation les promelas (fathead minnow)): > 100 mg/l 96 h : Water Accommodated Fraction 'Test Guideline 203
Aspin Not c Expe <u>Comp</u> betar Inhala Skin o 12. ECOL Ecoto Comp Petro Toxic	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO oxicity ponents: blatum: ity to fish	able information. Dosure : Target Organs: : Symptoms: Red N : LL50 (Pimepha Exposure time: Test substance Method: OECD Remarks: Base : EC50 (Daphnia	Adrenal gland dness, pruritis, Irritation les promelas (fathead minnow)): > 100 mg/l 96 h : Water Accommodated Fraction Test Guideline 203 ed on data from similar materials
Aspin Not c Expe <u>Comp</u> betar Inhala Skin o 12. ECOL Ecoto Comp Petro Toxic	ration toxicity lassified based on availa rience with human exp ponents: methasone: ation contact OGICAL INFORMATIO oxicity ponents: olatum: ity to fish	able information. Dosure : Target Organs: : Symptoms: Rei N : LL50 (Pimepha Exposure time: Test substance Method: OECD Remarks: Base : EC50 (Daphnia Exposure time:	Adrenal gland dness, pruritis, Irritation les promelas (fathead minnow)): > 100 mg/l 96 h : Water Accommodated Fraction Test Guideline 203 ed on data from similar materials



ersion .1	Revision Date: 2023/09/30		S Number: 82151-00015	Date of last issue: 2023/04/04 Date of first issue: 2017/05/17	
			Remarks: Based	on data from similar materials	
Toxicity to algae/aquatic plants		:	100 mg/l Exposure time: 72 Test substance: V Method: OECD T	rchneriella subcapitata (green algae)): >= 2 h Vater Accommodated Fraction est Guideline 201 on data from similar materials	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials		
Glyce	ryl monostearate:				
Toxici	ty to fish	:	Exposure time: 4	idus (Golden orfe)): > 100 mg/l 8 h on data from similar materials	
	ty to daphnia and other ic invertebrates	:	Exposure time: 4 Method: Directive Remarks: No toxi	agna (Water flea)): > 32 mg/l 7 h e 67/548/EEC, Annex V, C.2. city at the limit of solubility om similar materials	
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD T	chneriella subcapitata (green algae)): > 100 2 h Water Accommodated Fraction est Guideline 201 city at the limit of solubility	
			mg/l Exposure time: 72 Test substance: \ Method: OECD T	kirchneriella subcapitata (green algae)): > 1 2 h Water Accommodated Fraction est Guideline 201 city at the limit of solubility	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	Exposure time: 2 Method: OECD T Remarks: No toxi	magna (Water flea)): > 0.22 mg/l 1 d est Guideline 211 city at the limit of solubility om similar materials	
Toxici	ty to microorganisms	:	Exposure time: 18	onas putida): > 1 mg/l 8 h on data from similar materials	
4-Chl	oro-3-methylphenol:				
	ty to fish	:	LC50 (Oncorhynd	chus mykiss (rainbow trout)): 917 μg/l	



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			Exposure time: 96	3 h	
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 1.5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
	Toxicity to algae/aquatic plants		ErC50 (Chlorella) Exposure time: 72 Method: OECD Te		
			EC10 (Chlorella p Exposure time: 72 Method: OECD Te		
M-Fa	actor (Acute aquatic tox-	:	1		
Toxi aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te		
Toxi	Toxicity to microorganisms		EC50: 22.86 mg/l Exposure time: 60) h	
Тохі	methasone: city to daphnia and other atic invertebrates	:	EC50 (Americamy Exposure time: 96		
Toxi plan	city to algae/aquatic ts	:	mg/l Exposure time: 72 Method: OECD Te		
			mg/l Exposure time: 72 Method: OECD Te		
Toxi icity)	city to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te		
			NOEC (Oryzias la Exposure time: 21 Method: OECD Te		
aqua	city to daphnia and other atic invertebrates (Chron- xicity)			d	
M-Fa	actor (Chronic aquatic	:	1,000		



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toxicity	y)			
Persis	stence and degradab	ility		
<u>Comp</u>	onents:			
	l atum: gradability	:	Biodegradation: Exposure time: 2 Method: OECD 1	
Glyce	ryl monostearate:			
-	gradability	:	Result: Readily b Remarks: Based	iodegradable. on data from similar materials
4-Chlo	oro-3-methylphenol:			
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 1 Method: OECD 1	78 %
Bioac	cumulative potential			
Comp	onents:			
Partitio	ryl monostearate: on coefficient: n- ol/water	:	log Pow: 6.1	
4-Chlo	oro-3-methylphenol:			
Bioaco	cumulation	:	Species: Cyprinu Bioconcentration	is carpio (Carp) factor (BCF): 5.5 - 13
	on coefficient: n- bl/water	:	log Pow: 0.477	
Partitio	nethasone: on coefficient: n- ol/water	:	log Pow: 2.11	
	ity in soil ta available			
	adverse effects ta available			



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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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (betamethasone)
Class		9
Packing group	:	u III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (betamethasone)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)		956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(betamethasone)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	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.

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



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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered	:	Not applicable
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Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

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

16. OTHER INFORMATION

Revision Date	:	2023/09/30
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 Agen- cy, http://echa.europa.eu/



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Date format	:	yyyy/mm/dd		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
ID OEL	:	Indonesia. Occupational Exposure Limits		
ACGIH / TWA		8-hour, time-weighted average		
ACGIH / STEL		Short-term exposure limit		
ID OEL / NAB		Long term exposure limit		
ID OEL / PSD	:	Short term exposure limit		

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.