

Version 5.7	Revision Date: 16.10.2020		S Number: 204-00016	Date of last issue: 23.03.2020 Date of first issue: 30.09.2014
SECTION	1. PRODUCT AND CO	MPA	NY IDENTIFICAT	ION
Prod	uct name	:	Nomegestrol / Es	stradiol Formulation
Manu	ufacturer or supplier's	deta	ils	
Com	pany	:	Organon & Co.	
Addro	ess	:	30 Hudson Stree Jersey City, New	et, 33nd floor / Jersey, U.S.A 07302
Telep	phone	:	551-430-6000	
Emei	rgency telephone numbe	er :	215-631-6999	
E-ma	ail address	:	EHSSTEWARD	@organon.com
Reco	ommended use of the c	hem	ical and restriction	ons on use
Reco	ommended use	:	Pharmaceutical	

GHS Classification		
Carcinogenicity	:	Category 1A
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 1 (Liver, Bone, Blood, Endocrine system)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H350 May cause cancer. H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs (Liver, Bone, Blood, Endo- crine system) through prolonged or repeated exposure.
Precautionary statements	:	<ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P260 Do not breathe dust.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P281 Use personal protective equipment as required.</li> </ul>



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		<b>Response:</b> P308 + P313 attention.	IF exposed or concerned: Get medical advice/
		<b>Storage:</b> P405 Store Ic	ocked up.

#### Disposal:

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

#### Other hazards which do not result in classification

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

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 10 -< 30
Estradiol	50-28-2	>= 1 -< 10
17-Hydroxy-6-methyl-19-norpregna-4,6-diene- 3,20-dione 17-acetate	58652-20-3	>= 0.3 -< 10
Talc	14807-96-6	< 10
Titanium dioxide	13463-67-7	< 1

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause cancer. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.



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Notes	ction of first-aiders to physician <b>5. FIREFIGHTING MEA</b>	:	the skin. Dust contact w First Aid respon and use the red when the poter Treat symptom	ust can cause mechanical irritation or drying of ith the eyes can lead to mechanical irritation. Inders should pay attention to self-protection, commended personal protective equipment initial for exposure exists (see section 8). atically and supportively.
		00		
Suital	ble extinguishing media	:	Water spray Alcohol-resista Carbon dioxide Dry chemical	
Unsui media	table extinguishing	:	None known.	
Speci fightir	fic hazards during fire- g	:	concentrations potential dust e	ng dust; fine dust dispersed in air in sufficient , and in the presence of an ignition source is a explosion hazard. mbustion products may be a hazard to health.
Haza ucts	dous combustion prod-	:	Carbon oxides Nitrogen oxides	s (NOx)
Speci ods	fic extinguishing meth-	:	cumstances an Use water spra	ing measures that are appropriate to local cir- id the surrounding environment. by to cool unopened containers. naged containers from fire area if it is safe to d
for fire	al protective equipment efighters nem Code	:	In the event of	fire, wear self-contained breathing apparatus. protective equipment.

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. 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	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items



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		mine which reg Sections 13 ar	ne cleanup of releases. You will need to deter- gulations are applicable. Ind 15 of this SDS provide information regarding r national requirements.
SECTION	I 7. HANDLING AND ST	ORAGE	
Tech	nical measures	causing an exp Provide adequ	ry may accumulate and ignite suspended dust blosion. late precautions, such as electrical grounding or inert atmospheres.
Loca	I/Total ventilation		ntilation is unavailable, use with local exhaust
Advie	ce on safe handling	: Do not get on Do not breathe Do not swallow Avoid contact Wash skin tho Handle in acco practice, base sessment Keep containe Keep containe Keep away fro Take precautio Do not eat, dri	ν.
Hygi	ene measures	: If exposure to flushing syster place. When using do	chemical is likely during typical use, provide eye ns and safety showers close to the working o not eat, drink or smoke. nated clothing before re-use.
Cond	ditions for safe storage	: Keep in prope Store locked u Keep tightly cl	rly labelled containers. p.
Mate	erials to avoid		ith the following product types:

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis		
		(Form of	ters / Permissible			
		exposure)	concentration			
Cellulose	9004-34-6	TWA	10 mg/m3	AU OEL		
	Further informa	containing no				
	asbestos and < 1% crystalline silica					
		TWA	10 mg/m3	ACGIH		
Estradiol	50-28-2	TWA	0.05 µg/m3 (OEB	Internal		



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				5)			
		Further inform					
			Wipe limit	0.5 µg/100 cm <sup>2</sup>	Internal		
17-Hydroxy-6-methyl-19- norpregna-4,6-diene-3,20- dione 17-acetate		58652-20-3	TWA	0.2 µg/m3	Internal		
			Wipe limit	2 µg/100 cm <sup>2</sup>	Internal		
Talc		14807-96-6	TWA	2.5 mg/m3	AU OEL		
			TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH		
Titanium dioxide		13463-67-7	TWA	10 mg/m3	AU OEL		
			ation: This value < 1% crystalline	e is for inhalable dus silica	st containing		
			TWA	10 mg/m3	ACGIH		
				(Titanium dioxide)			
		ventilation.	entilation is unav	ailable, use with loc	al exhaust		
Personal protective equip	oment						
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec-					
	:	<ul><li>ommended guidelines, use respiratory protection.</li><li>Particulates type</li></ul>					
Filter type Hand protection			уре				
	:	Chemical-res					
Hand protection	:	Chemical-res Choose glove on the conce stance and s determined for applications, chemicals of glove manufa	istant gloves es to protect han ntration and qua pecific to place of or the product. C we recommend the aforemention acturer. Wash ha	ds against chemical ntity of the hazardou of work. Breakthroug hange gloves often! clarifying the resista ned protective glove unds before breaks a	Is dependinq us sub- Ih time is no For special ince to s with the		
Hand protection Material	:	Chemical-res Choose glove on the conce stance and s determined for applications, chemicals of glove manufa end of workd	istant gloves es to protect han ntration and qua pecific to place of or the product. C we recommend the aforemention acturer. Wash ha ay. pwing personal p	ds against chemical ntity of the hazardou of work. Breakthroug hange gloves often! clarifying the resista ned protective glove	Is depending us sub- ih time is no For special ince to is with the and at the		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	ance	:	powder	
	Colour		:	white	
	Odour		:	odourless	
	Odour <sup>-</sup>	Threshold	:	No data available	)
	рН		:	No data available	)
	Melting	point/freezing point	:	No data available	)
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	)
	Evapor	ation rate	:	No data available	)
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	No data available	)
		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		:	1 g/cm3	
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n-	:	No data available	9
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, dynamic	:	No data available	9
	Visc	osity, kinematic	:	No data available	)
	Explosi	ve properties	:	Not explosive	



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	Oxidiz	ing properties	:	The substance	or mixture is not classified as oxidizing.		
	Molecular weight		:	No data availat	ble		
	Particl	le size	:	No data availat	ble		
SE		10. STABILITY AND RE	EAC	ΤΙVITY			
		ivity ical stability bility of hazardous reac-	:	Stable under no May form explo dling or other m	s a reactivity hazard. ormal conditions. osive dust-air mixture during processing, han- neans. strong oxidizing agents.		
	Condi	tions to avoid	:	Heat, flames an			
	Incompatible materials Hazardous decomposition products		:	<ul><li>Avoid dust formation.</li><li>Oxidizing agents</li><li>No hazardous decomposition products are known.</li></ul>			
SEC		11. TOXICOLOGICAL I	NFC	ORMATION			
	Expos	ure routes	:	Inhalation Skin contact Ingestion Eye contact			
		e <b>toxicity</b> assified based on availa	ble	information.			
	<u>Comp</u>	onents:					
	Cellul	ose:					
	Acute	oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg		
	Acute	inhalation toxicity	:	LC50 (Rat): > 5. Exposure time: Test atmosphere	4 h		
	Acute	dermal toxicity	:	LD50 (Rabbit): >	> 2,000 mg/kg		
	Estrad	diol:					
	Acute	oral toxicity	:	LD50 (Rat): > 2,	000 mg/kg		
		toxicity (other routes of istration)	:		00 mg/kg te: Subcutaneous		
	17-Hy	droxy-6-methyl-19-nor	pre	gna-4,6-diene-3	20-dione 17-acetate:		
	Acute	oral toxicity	:	LD50 (Rat): > 2,	000 mg/kg		
				LD50 (Mouse):	> 2,000 mg/kg		
		toxicity (other routes of istration)	:		000 mg/kg te: Intraperitoneal		



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Talc:				
Acute	oral toxicity	:	LD50 (Rat): > Remarks: Bas	5,000 mg/kg ed on data from similar materials
Titan	ium dioxide:			
Acute	oral toxicity	:	LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosphe Assessment: tion toxicity	e: 4 h
-	corrosion/irritation assified based on ava	ailable	information.	
<u>Com</u>	oonents:			
<b>Talc:</b> Speci Resul		:	Rabbit No skin irritatio	on
Titan	ium dioxide:			
Speci Resu	es	:	Rabbit No skin irritatio	on
	us eye damage/eye assified based on ava			
Com	oonents:			
<b>Estra</b> Resul		:	No eye irritatio	on
Talc:				
Speci Resul		:	Rabbit No eye irritatio	on
Titan	ium dioxide:			
Speci Resul		:	Rabbit No eye irritatio	on
Resp	iratory or skin sensi	tisatio	n	
-	sensitisation assified based on ava	ailable	information.	
Posp	iratory sensitisation			



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<u>Cc</u>	omponents:		
Ex Sp As	t <b>radiol:</b> posure routes ecies sessment esult	<ul> <li>Skin contac</li> <li>Guinea pig</li> <li>Does not ca</li> <li>negative</li> </ul>	t ause skin sensitisation.
Та	lc:		
Sp	posure routes ecies esult	: Skin contac : Humans : negative	t
	anium dioxide:		
Ex Sp	st Type posure routes ecies esult	: Local lymph : Skin contac : Mouse : negative	n node assay (LLNA) t
Cł	aronic toxicity		
	erm cell mutagenicity ot classified based on availa	able information.	
<u>Cc</u>	omponents:		
	enotoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
Ge	enotoxicity in vivo	cytogenetic Species: Me	Duse Route: Ingestion
Es	tradiol:		
Ge	enotoxicity in vitro	thesis in ma	DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) n: mammalian cells itive
		Test Type: Test system Result: posi	Chromosome aberration test in vitro n: mammalian cells itive
			Chromosomal aberration n: mammalian cells itive



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Genot	oxicity in vivo	: Test Type: Chromosomal aberration Species: Rat Cell type: Bone marrow Result: negative
		Test Type: Chromosomal aberration Species: Mouse Cell type: Bone marrow Result: negative
17-Hv	droxv-6-methvl-19-	orpregna-4,6-diene-3,20-dione 17-acetate:
-	oxicity in vitro	: Test Type: Ames test Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
Genot	oxicity in vivo	: Test Type: In vivo micronucleus test Species: Rat Application Route: Oral Result: negative
		Test Type: In vivo micronucleus test Species: Mouse Application Route: Oral Result: negative
Talc:		
	oxicity in vitro	: Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
Genot	oxicity in vivo	: Test Type: Chromosome aberration test in vitro Species: Rat Application Route: Ingestion Result: negative
Titani	um dioxide:	
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genot	oxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse Result: negative



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Carcin	nogenicity		
May ca	ause cancer.		
Comp	onents:		
Cellulo	ose:		
Specie		: Rat : Ingestion	
	ure time	: 72 weeks : negative	
Estrad	liol:		
Specie	S	: Mouse	
	ation Route	: Ingestion	
	ure time	: 24 Months	
LOAEL		: 100 µg/kg	
Result		: positive	oductive organs
raiyet	Organs	. Ternale repro	Judenve organs
Specie		: Rat	
	ation Route	: Subcutaneo	us
	ure time	: 13 weeks	1
LOAEL		: 20 mg/kg bo	dy weight
Result	Organs	: positive : Endocrine sy	vetem
Taryer	Organs	. Endochine s	ystem
Carcin ment	ogenicity - Assess-	: Positive evic	lence from human epidemiological studies
17-Hyo	droxy-6-methyl-19-n	orpregna-4,6-dien	e-3,20-dione 17-acetate:
Specie	es	: Rat	
Applica	ation Route	: oral (feed)	
Activity	y duration	: 52 Weeks	
		: 10 mg/kg bo	dy weight
Result		: negative	
Specie		: Mouse	
Applica	ation Route	: oral (feed)	
D		: 20 mg/kg bo	dy weight
Result	Organs	: positive : Mammary d	land, Pituitary gland
Target	Organs	. Wannary gi	and, Fitulary gland
Carcin	ogenicity - Assess-	: Weight of ev	vidence does not support classification as a ca
ment		cinogen	
Talc:			
Specie	es	: Mouse	
	ation Route		ust/mist/fume)
	ure time	: 2 Years	
Result		: negative	
Titaniı	um dioxide:		
Specie	es	: Rat	



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	t	: 2 Ye : OEC : posit	D Test Guide ive mechanism c	
Carcin ment	nogenicity - Assess-	: Limit anim		of carcinogenicity in inhalation studies with
May d	oductive toxicity amage fertility. May da ponents:	amage the	unborn child.	
Cellul				
	s on fertility	Spec Appl	Type: One-g ies: Rat cation Route Ilt: negative	eneration reproduction toxicity study : Ingestion
Effects ment	s on foetal develop-	Spec Appl	Type: Fertilit ies: Rat cation Route Ilt: negative	y/early embryonic development : Ingestion
Estra	diol:			
	s on fertility	Spec Appl Ferti	ties: Rat cation Route	0.5 mg/kg body weight
		Spec Dura Ferti	ies: Rat tion of Single	eneration reproduction toxicity study Treatment: 90 d 0.69 mg/kg body weight fertility
		Spec Appl Ferti	ies: Mouse cation Route	0.1 mg/kg body weight
Effects	s on foetal develop-	Spec Appl Tera Sym Resu Test	ties: Mouse, cation Route togenicity: Lo otoms: Malfo ilt: positive, T	ro-foetal development female : Subcutaneous DAEL: 4 mg/kg body weight rmations were observed. Feratogenic effects eneration reproduction toxicity study



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			Symptoms: Redu	DAEL: 2.5 μg/kg body weight ced body weight Embryotoxic effects and adverse effects on
			Species: Rat Application Route Developmental To Symptoms: Early number of viable Result: Embryoto	ro-foetal development :: Subcutaneous pxicity: LOAEL: 0.2 mg/kg body weight Resorptions / resorption rate, Reduced fetuses, Reduced body weight xic effects and adverse effects on the off- ted only at high maternally toxic doses
	roductive toxicity - As-	:	May damage ferti	lity. May damage the unborn child.
17-H	lydroxy-6-methyl-19-nc	orpre	gna-4,6-diene-3,2	0-dione 17-acetate:
Effeo men	cts on foetal develop- t	:	Test Type: Develor Species: Rat Application Route Result: negative	
			Species: Rabbit Application Route	ro-foetal development : Oral No teratogenic effects
	roductive toxicity - As-	:		of adverse effects on sexual function and in epidemiological studies.
Talc				
	cts on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-foetal development : Ingestion

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Causes damage to organs (Liver, Bone, Blood, Endocrine system) through prolonged or repeated exposure.

#### **Components:**

#### Estradiol:

Target Organs Assessment	Liver, Bone, Blood, Endocrine system Causes damage to organs through prolonged or repeated
	exposure.



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Repe	ated dose toxicity		
Comp	oonents:		
Cellul	lose:		
		: Rat : >= 9,000 mg/k : Ingestion : 90 Days	g
Estra	diol:		
Expos			d, Ovary, Uterus (including cervix), Liver, Bone, em, Blood, Testis
17-Hy	droxy-6-methyl-19-ı	norpregna-4,6-diene-	3,20-dione 17-acetate:
		: Mouse : 20 mg/kg : Oral : 52 Weeks	
		: Rat : 20 mg/kg : Oral : 52 Weeks	
Titani	um dioxide:		
Speci NOAE Applic	es	: Rat : 24,000 mg/kg : Ingestion : 28 Days	
		: Rat : 10 mg/m3 : inhalation (dus : 2 yr	t/mist/fume)
-	ation toxicity assified based on ava	ailable information.	
Expe	rience with human e	xposure	
Comp	oonents:		
Estra	diol:		
Inhala Skin c Ingest	contact	<ul> <li>Symptoms: Sk</li> <li>Symptoms: He ness, Vomiting</li> </ul>	gling, Nose bleeding in irritation, Redness, pruritis adache, Gastrointestinal disturbance, Dizzi- , Diarrhoea, water retention, liver function es in libido, breast tenderness, menstrual irreg-



sion	Revision Date: 16.10.2020	-	S Number: 204-00016	Date of last issue: 23.03.2020 Date of first issue: 30.09.2014
			ularities	
17-Hy	droxy-6-methyl-19-no	pre	qna-4,6-diene-	3,20-dione 17-acetate:
Ingest	ion	:	Symptoms: ac breast tendern tal pain, mood	ne, amenorhea, Headache, Dizziness, Nause ess, changes in libido, insomnia, musculoske swings, muscle pain, muscle twitching
	12. ECOLOGICAL INF	JRI	IATION	
Ecoto	-			
	onents:			
<b>Cellul</b> Toxicit	<b>ose:</b> ty to fish	:	Exposure time	latipes (Japanese medaka)): > 100 mg/l : 48 h ed on data from similar materials
<b>F</b> = 4 = 5	P.1			
Estrac				latings (language model(s)); 2.0 mg/l
IOXICI	ty to fish	·	Exposure time	latipes (Japanese medaka)): 3.9 mg/l : 96 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time	a magna (Water flea)): 2.7 mg/l : 48 h
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time	okirchneriella subcapitata (green algae)): 1.7 : 72 h ) Test Guideline 201
			mg/l Exposure time	kirchneriella subcapitata (green algae)): > 1.7 : 72 h D Test Guideline 201
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time	s latipes (Japanese medaka)): 0.000003 mg/l : 160 d ) Test Guideline 210
	ty to daphnia and other c invertebrates (Chron-	:	NOEC (Daphn Exposure time	ia magna (Water flea)): 0.2 mg/l : 21 d
	ty to microorganisms	:		
17-Hv	droxy-6-methyl-19-no	rpre	gna-4,6-diene-	3,20-dione 17-acetate:
-	ty to algae/aquatic	•	-	kirchneriella subcapitata (green algae)): > 3.0

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): > 3.07



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plants			mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
Toxicity icity)	to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 27	
	to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21 Method: OECD Te	
Toxicity	to microorganisms	:	EC50 (Natural mid Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
			Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
Talc:				
Toxicity	to fish	:	LC50 (Brachydan Exposure time: 24	io rerio (zebrafish)): > 100,000 mg/l ⊦h
Titaniu	m dioxide:			
Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h
Toxicity plants	to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): > 10,000 mg/l ? h
Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD Te	h
Persist	ence and degradabili	ity		
<u>Compo</u>	nents:			
<b>Cellulo</b> Biodegr	<b>se:</b> radability	:	Result: Readily bi	odegradable.



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<b>Estra</b> Biode	idiol: egradability	:	Result: rapidly d Biodegradation: Exposure time: 2	84 %
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
	idiol: ion coefficient: n- iol/water	:	log Pow: 4.01	
-	ydroxy-6-methyl-19-no ccumulation	rpre :	Species: Zebrafi	
	ion coefficient: n- ol/water	:	log Pow: 3.7	
Mobi	lity in soil			
Com	ponents:			
	idiol: bution among environ- al compartments	:	log Koc: 3.81	
Distri	ydroxy-6-methyl-19-no bution among environ- al compartments	-	log Koc: 3.35	<b>20-dione 17-acetate:</b> Test Guideline 106
	r adverse effects ata available			
ECTION	13. DISPOSAL CONSI	DEF	ATIONS	
Wast	osal methods e from residues aminated packaging	:	Empty container dling site for rec	cordance with local regulations. is should be taken to an approved waste han- ycling or disposal. specified: Dispose of as unused product.
ECTION	14. TRANSPORT INFO	RM	ATION	
Interi	national Regulations			
UNR <sup>-</sup> UN ni	-	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID, ydroxy-6-methyl-19-norpregna-4,6-diene- cetate)



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Clas Pack Labe	king group	: 9 : III : 9	
UN/I	<b>A-DGR</b> D No. er shipping name	<ul> <li>UN 3077</li> <li>Environmentally hazardous substance, solid, n.o.s. (Estradiol, 17-Hydroxy-6-methyl-19-norpregna-4,6-die 3,20-dione 17-acetate)</li> </ul>	ene-
Labe Pack aircr	king group els king instruction (cargo aft)	: 9 : III : Miscellaneous : 956	
ger a	king instruction (passen- aircraft) ronmentally hazardous	: 956 : yes	
UN ı	<b>G-Code</b> number er shipping name	<ul> <li>UN 3077</li> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, S N.O.S. (Estradiol, 17-Hydroxy-6-methyl-19-norpregna-4,6-die)</li> </ul>	·
Labe EmS	king group	dione 17-acetate) : 9 : III : 9 : F-A, S-F : yes	
	•	to Annex II of MARPOL 73/78 and the IBC Code	
	applicable for product as onal Regulations	արհերութը հերութը	
	number ner shipping name	<ul> <li>UN 3077</li> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, S</li> <li>N O S</li> </ul>	Solid,

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Estradiol, 17-Hydroxy-6-methyl-19-norpregna-4,6-diene- 3,20-dione 17-acetate)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	2Z

#### 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 environmental regulations/legislation specific for the substance or mixture



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Prohibition/Licensing Requirements			: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.			
The components of this product are reported in the following inventories:						
AICS		: not determined	3			
DSL		: not determined	ť			
IECS	С	: not determined				

#### **SECTION 16. OTHER INFORMATION**

Further information					
Revision Date Sources of key data used to compile the Safety Data Sheet	:	16.10.2020 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/			
Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
		USA. ACGIH Threshold Limit Values (TLV)			
AU OEL	:	Australia. Workplace Exposure Standards for Airborne Con- taminants.			
ACGIH / TWA	:	8-hour, time-weighted average			
AU OEL / TWA	:	Exposure standard - time weighted average			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with 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 Develop-



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ment; 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; 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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