

according to GB/T 16483 and GB/T 17519

Nomegestrol / Estradiol Formulation

Vers 6.7		Revision Date: 2020/10/16		S Number: 16-00016	Date of last issue: 2020/03/23 Date of first issue: 2014/09/30		
1. PI	1. PRODUCT AND COMPANY IDENTIFICATION						
	Product name		:	Nomegestrol / Es	tradiol Formulation		
	Manufa	acturer or supplier's d	letai	ls			
	Company		:	Organon & Co.			
	Address		:	30 Hudson Street Jersey City, New	t, 33nd floor Jersey, U.S.A 07302		
	Telephone		:	551-430-6000			
	Emergency telephone number		• :	215-631-6999			
	E-mail a	address	:	EHSSTEWARD@	⊉organon.com		
		mended use of the ch mended use		cal and restrictio Pharmaceutical	ons on use		

Recommended use	-	Pharmace

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	: powder : white : odourless		
May cause cancer. May damage fertility. May damage the unborn child. Causes damage to or- gans through prolonged or repeated exposure. Harmful to aquatic life. Very toxic to aquatic life with long lasting effects.			

GHS Classification

Carcinogenicity	:	Category 1A
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 1
Short-term (acute) aquatic hazard	:	Category 3
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal word	:	Danger

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Hazar	d statements	H372 Causes exposure. H402 Harmful	lamage fertility. May damage the unborn child. damage to organs through prolonged or repeated
Preca	utionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P273 Avoid re	reathe dust. in thoroughly after handling. at, drink or smoke when using this product. ease to the environment. otective gloves/ protective clothing/ eye protec-
		Response: P308 + P313 I attention. P391 Collect s	F exposed or concerned: Get medical advice/ pillage.
		Storage: P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
-	cal and chemical haz assified based on avai		
Healt	h hazards		
	ause cancer. May dan through prolonged or r		nage the unborn child. Causes damage to or-
Envir	onmental hazards		

Harmful to aquatic life. Very toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

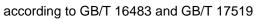
Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 10 -< 20
Estradiol	50-28-2	>= 2.5 -< 10





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	17-Hydroxy-6-methyl-19-norpregna-4,6-diene- 3,20-dione 17-acetate		58652-20-3	>= 1 -< 2.5	
Talc			14807-96-6	>= 1 -< 10	
Titanium dioxide			13463-67-7	>= 0.1 -< 1	

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. Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.
Protection 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).
Notes to physician	:	Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)

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	Specific extinguishing meth- ods Special protective equipment for firefighters		:	Use extinguishing measures that are appropriate to local cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is saf so. Evacuate area. In the event of fire, wear self-contained breathing appar Use personal protective equipment.	
6. A	CCIDE	NTAL RELEASE MEAS	SUF	RES	
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	Enviror	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
		ds and materials for ment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national to posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

7. HANDLING AND STORAGE

Handling		
Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe dust. 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- sessment Keep container tightly closed.

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	Avoidance of contact		Keep container of Keep away from Take precautiona Do not eat, drink	eneration and accumulation. closed when not in use. heat and sources of ignition. ary measures against static discharges. or smoke when using this product. vent spills, waste and minimize release to the
Stor	age			
	Conditions for safe storage Materials to avoid		 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 	
Pac	kaging material	:	Unsuitable mater	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	PC-TWA	10 mg/m3	CN OEL
		TWA	10 mg/m3	ACGIH
Estradiol	50-28-2	TWA	0.05 µg/m3 (OEB 5)	Internal
	Further inform	nation: Skin		
		Wipe limit	0.5 µg/100 cm ²	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 ²	Internal
Talc	14807-96-6	PC-TWA (Total dust)	3 mg/m3	CN OEL
		PC-TWA (Respirable dust)	1 mg/m3	CN OEL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH
Titanium dioxide	13463-67-7	PC-TWA (Total dust)	8 mg/m3	CN OEL
	Further inform	nation: G2B - Pos	ssibly carcinogenic to	humans
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

Engineering measures

: Minimize workplace exposure concentrations. Apply measures to prevent dust explosions.

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		dust collec signed in a work area	t dust-handling systems (such as exhaust ducts, tors, vessels, and processing equipment) are de- manner to prevent the escape of dust into the (i.e., there is no leakage from the equipment). ventilation is unavailable, use with local exhaust
Per	sonal protective equipr	nent	
	piratory protection	sure asses	e local exhaust ventilation is not available or expo- sment demonstrates exposures outside the rec- d guidelines, use respiratory protection.
	Filter type /face protection	: Particulate : Wear the f Safety gog	ollowing personal protective equipment:
Skir	and body protection	: Select app resistance potential. Skin conta	ct must be avoided by using impervious protective oves, aprons, boots, etc).
Han	d protection	olotining (g	
Ν	Material	: Chemical-ı	esistant gloves
F	Remarks	on the con stance and determined application chemicals	oves to protect hands against chemicals depending centration and quantity of the hazardous sub- l specific to place of work. Breakthrough time is not d for the product. Change gloves often! For special s, we recommend clarifying the resistance to of the aforementioned protective gloves with the ufacturer. Wash hands before breaks and at the kday.
Hyg	iene measures	: If exposure eye flushin ing place. When usin	e to chemical is likely during typical use, provide g systems and safety showers close to the work- g do not eat, drink or smoke. aminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white
Odour	:	odourless
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

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F	Flash p	oint	:	No data available	9
E	Evapora	ation rate	:	No data available)
F	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
F	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
١	Vapour	pressure	:	No data available)
F	Relative	e vapour density	:	No data available)
F	Relative	e density	:	No data available	9
[Density		:	1 g/cm3	
S	Solubilit Wate	ty(ies) er solubility	:	No data available	9
	Partitior	n coefficient: n-	:	No data available	9
		nition temperature	:	No data available	9
[Decom	position temperature	:	No data available	9
١	Viscosit Visc	ty osity, dynamic	:	No data available)
	Visc	osity, kinematic	:	No data available)
E	Explosi	ve properties	:	Not explosive	
(Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
Ν	Molecul	lar weight	:	No data available)
F	Particle	size	:	No data available	

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	May form explosive dust-air mixture during processing, han-
tions		dling or other means.
		Can react with strong oxidizing agents.

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Incom	itions to avoid npatible materials rdous decomposition icts	::	Heat, flames and Avoid dust forma Oxidizing agents No hazardous de	tion.
1. TOXIC	OLOGICAL INFORMAT		N	
Expo	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
Acute	e toxicity			
Not c	lassified based on availa	ble	information.	
Produ Acute	uct: a oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 5,000 mg/kg on method
<u>Com</u>	ponents:			
Cellu	lose:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
Estra	dial			
	e oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
	toxicity (other routes of nistration)	:	. ,) mg/kg
-	ydroxy-6-methyl-19-nor	-	gna-4,6-diene-3,2 LD50 (Rat): > 2,0	
	-		LD50 (Mouse): > 1	
	e toxicity (other routes of nistration)	:	LD50 (Rat): > 2,0 Application Route	
Talc:				
Acute	e oral toxicity	:	LD50 (Rat): > 5,0 Remarks: Based (00 mg/kg on data from similar materials
Titan	ium dioxide:			

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Acute	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 6 Exposure time: Test atmospher Assessment: Th tion toxicity	4 h
-	corrosion/irritation lassified based on ava	ilable	information.	
Com	ponents:			
Talc:				
Speci Resu		:	Rabbit No skin irritatior	1
Titan	ium dioxide:			
Speci Resu		:	Rabbit No skin irritatior	ì
Not c	ous eye damage/eye i lassified based on ava ponents:			
Estra				
Resu		:	No eye irritation	
Talc:				
Talc: Speci Resu		:	Rabbit No eye irritatior	
Speci Resu		:		
Speci Resu	lt ium dioxide: ies	::	No eye irritation	
Speci Resu Titan Speci Resu	lt ium dioxide: ies	:	No eye irritation Rabbit No eye irritation	
Speci Resu Titan Speci Resu Resp Skin	lt ium dioxide: ies It	: tisatio	No eye irritation Rabbit No eye irritation	
Speci Resu Titan Speci Resu Resp Skin Not c Resp	lt ium dioxide: ies It iratory or skin sensit sensitisation	: t isatic iilable	No eye irritation Rabbit No eye irritation n information.	
Speci Resu Titan Speci Resu Resp Skin Not c Resp Not c	It ium dioxide: ies It iratory or skin sensit sensitisation lassified based on ava iratory sensitisation	: t isatic iilable	No eye irritation Rabbit No eye irritation n information.	
Speci Resu Titan Speci Resu Resp Skin Not c Resp Not c	It ium dioxide: ies It iratory or skin sensi t sensitisation lassified based on ava iratory sensitisation lassified based on ava ponents:	: t isatic iilable	No eye irritation Rabbit No eye irritation n information.	

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Ver 6.7	sion	Revision Date: 2020/10/16		0S Number: 216-00016	Date of last issue: 2020/03/23 Date of first issue: 2014/09/30
	Result		:	negative	
	Talc: Exposu Specie Result	ure routes s	:	Skin contact Humans negative	
	Test Ty	ure routes	::	Local lymph node Skin contact Mouse negative	assay (LLNA)
	Not cla	cell mutagenicity ssified based on availa	able	information.	
		onents:			
	Celluic Genoto	ose: oxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
				Test Type: In vitro Result: negative	o mammalian cell gene mutation test
	Genoto	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: negative	
	Estrad	iol:			
	Genoto	oxicity in vitro	:	Test Type: DNA c thesis in mammal Test system: man Result: positive	
				Test Type: Chrom Test system: man Result: positive	nosome aberration test in vitro nmalian cells
				Test Type: Chrom Test system: man Result: positive	nosomal aberration nmalian cells
	Genoto	oxicity in vivo	:	Test Type: Chrom Species: Rat Cell type: Bone m Result: negative	nosomal aberration narrow
				Test Type: Chrom	nosomal aberration

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		Species: Mou Cell type: Boi Result: negat	ne marrow
17-Hy	droxy-6-methyl-19-	norpregna-4,6-diene	-3,20-dione 17-acetate:
Genot	oxicity in vitro	: Test Type: A Result: negat	
		Test Type: C Result: negat	hromosome aberration test in vitro ive
			NA damage and repair, unscheduled DNA sy nmalian cells (in vitro) ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
Genot	oxicity in vivo	: Test Type: In Species: Rat Application R Result: negat	
		Test Type: In Species: Mou Application R Result: negat	oute: Oral
Talc:			
Genot	oxicity in vitro		NA damage and repair, unscheduled DNA sy nmalian cells (in vitro) ive
Genot	oxicity in vivo	Species: Rat	hromosome aberration test in vitro oute: Ingestion ive
Titani	um dioxide:		
Genot	oxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
Genot	oxicity in vivo	: Test Type: In Species: Mou Result: negat	

May cause cancer.

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<u>Comp</u>	onents:		
Cellul	ose:		
Specie		: Rat	
•	ation Route	: Ingestion	
	ure time	: 72 weeks	
Result		: negative	
Estra	diol:		
Specie	es	: Mouse	
Applic	ation Route	: Ingestion	
Expos	ure time	: 24 Months	
LOAE	L	: 100 µg/kg	
Result		: positive	
Target	t Organs	: female reprod	uctive organs
Specie		: Rat	
	ation Route	: Subcutaneous	5
	ure time	: 13 weeks	
LOAE Result		: 20 mg/kg bod : positive	yweight
	t Organs	: Endocrine sys	stem
Carcin ment	ogenicity - Assess-	: Positive evide	nce from human epidemiological studies
ment			nce from human epidemiological studies -3,20-dione 17-acetate:
ment	droxy-6-methyl-19-n		
ment 17-Hy Specie	droxy-6-methyl-19-n	orpregna-4,6-diene	
ment 17-Hy Specie Applic	droxy-6-methyl-19-n	orpregna-4,6-diene : Rat	
ment 17-Hy Specie Applic	droxy-6-methyl-19-n es ation Route	orpregna-4,6-diene : Rat : oral (feed)	-3,20-dione 17-acetate:
ment 17-Hy Specie Applic	droxy-6-methyl-19-n es ation Route y duration	orpregna-4,6-diene : Rat : oral (feed) : 52 Weeks	-3,20-dione 17-acetate:
ment 17-Hy Specie Applic Activit Result Specie	droxy-6-methyl-19-n es ation Route y duration	orpregna-4,6-diene : Rat : oral (feed) : 52 Weeks : 10 mg/kg bod : negative : Mouse	-3,20-dione 17-acetate:
ment 17-Hy Specie Applic Activit Result Specie	droxy-6-methyl-19-n es ation Route y duration	orpregna-4,6-diene : Rat : oral (feed) : 52 Weeks : 10 mg/kg bod : negative : Mouse : oral (feed)	-3,20-dione 17-acetate: y weight
ment 17-Hy Specie Applic Activit Result Specie Applic	droxy-6-methyl-19-n es ation Route y duration es ation Route	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod	-3,20-dione 17-acetate: y weight
ment 17-Hy Specie Applic Activit Result Specie Applic Result	droxy-6-methyl-19-n es ation Route y duration es ation Route	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod positive	-3,20-dione 17-acetate: y weight y weight
ment 17-Hy Specie Applic Activity Result Specie Applic Result Target	droxy-6-methyl-19-n es ation Route y duration es ation Route t Organs	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse Mouse oral (feed) 20 mg/kg bod positive Mammary gla	-3,20-dione 17-acetate: y weight y weight nd, Pituitary gland
ment 17-Hy Specie Applic Activity Result Specie Applic Result Target	droxy-6-methyl-19-n es ation Route y duration es ation Route	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse Mouse oral (feed) 20 mg/kg bod positive Mammary gla	-3,20-dione 17-acetate: y weight y weight
ment 17-Hy Specie Applic Activit Result Specie Applic Result Target Carcir	droxy-6-methyl-19-n es ation Route y duration es ation Route t Organs	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod positive Mammary gla Weight of evice	-3,20-dione 17-acetate: y weight y weight nd, Pituitary gland
ment 17-Hy Specie Applic Activity Result Specie Applic Result Target Carcin ment	droxy-6-methyl-19-n es ation Route y duration es ation Route t Organs	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod positive Mammary gla Weight of evice	-3,20-dione 17-acetate: y weight y weight nd, Pituitary gland
ment 17-Hy Specie Applic Activit Result Specie Applic Result Target Carcir ment Talc: Specie	droxy-6-methyl-19-n es ation Route y duration es ation Route t Organs	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod positive Mammary gla Weight of evic cinogen	-3,20-dione 17-acetate: y weight nd, Pituitary gland dence does not support classification as a car-
ment 17-Hy Specie Applic Activit Result Specie Applic Result Target Carcir ment Talc: Specie Applic	droxy-6-methyl-19-n es ation Route y duration es ation Route t Organs hogenicity - Assess-	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod positive Mammary gla Weight of evic cinogen Mouse	-3,20-dione 17-acetate: y weight nd, Pituitary gland dence does not support classification as a car-
ment 17-Hy Specie Applic Activit Result Specie Applic Result Target Carcir ment Talc: Specie Applic	droxy-6-methyl-19-n es ation Route y duration es ation Route t Organs hogenicity - Assess- es ation Route ure time	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod positive Mammary gla Weight of evic cinogen Mouse inhalation (dus	-3,20-dione 17-acetate: y weight nd, Pituitary gland dence does not support classification as a car-
ment 17-Hy Specie Applic Activit Result Specie Applic Result Target Carcir ment Talc: Specie Applic Result	droxy-6-methyl-19-n es ation Route y duration es ation Route t Organs hogenicity - Assess- es ation Route ure time	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod positive Mammary gla Weight of evic cinogen Mouse Nouse 2 Mouse 2 Mouse 2 Mouse 2 Years	-3,20-dione 17-acetate: y weight nd, Pituitary gland dence does not support classification as a car-
ment 17-Hy Specie Applic Activity Result Specie Applic Carcin ment Talc: Specie Applic Expos Result Talc:	droxy-6-methyl-19-n es ation Route y duration es ation Route t Organs hogenicity - Assess- es ation Route ure time tum dioxide:	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod positive Mammary gla Weight of evic cinogen Mouse inhalation (dus 2 Years negative	-3,20-dione 17-acetate: y weight nd, Pituitary gland dence does not support classification as a car-
ment 17-Hy Specie Applic Activity Result Specie Applic Carcin ment Talc: Specie Applic Expos Result Titani Specie	droxy-6-methyl-19-n es ation Route y duration es ation Route t Organs hogenicity - Assess- es ation Route ure time tum dioxide:	orpregna-4,6-diene Rat oral (feed) 52 Weeks 10 mg/kg bod negative Mouse oral (feed) 20 mg/kg bod positive Mammary gla Weight of evic cinogen Mouse Nouse 2 Mouse 2 Mouse 2 Mouse 2 Years	-3,20-dione 17-acetate: y weight nd, Pituitary gland dence does not support classification as a car-



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od t rks	 OECD Test Guideline 453 positive The mechanism or mode of action may not be relevant in hu mans. 					
nogenicity - Assess-	: Limited evidence of carcinogenicity in inhalation studies with animals.					
oductive toxicity lamage fertility. May da	nage the unborn child.					
oonents:						
o se: s on fertility	: Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative					
s on foetal develop-	: Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative					
diol:						
s on fertility	: Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Fertility: LOAEL: 0.5 mg/kg body weight Result: Effects on fertility					
	Test Type: One-generation reproduction toxicity study Species: Rat Duration of Single Treatment: 90 d Fertility: LOAEL: 0.69 mg/kg body weight Result: Effects on fertility					
	Test Type: Two-generation study Species: Mouse Application Route: Oral Fertility: LOAEL: 0.1 mg/kg body weight Result: Effects on fertility					
s on foetal develop-	 Test Type: Embryo-foetal development Species: Mouse, female Application Route: Subcutaneous Teratogenicity: LOAEL: 4 mg/kg body weight Symptoms: Malformations were observed. Result: positive, Teratogenic effects Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Subcutaneous 					
	od t rks hogenicity - Assess- oductive toxicity lamage fertility. May dan <u>conents:</u> lose: s on fertility s on foetal develop- diol: s on fertility					

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				Symptoms: Redu	Embryotoxic effects and adverse effects on
				Species: Rat Application Route Developmental To Symptoms: Early number of viable Result: Embryoto	vo-foetal development e: Subcutaneous oxicity: LOAEL: 0.2 mg/kg body weight Resorptions / resorption rate, Reduced fetuses, Reduced body weight xic effects and adverse effects on the off- cted only at high maternally toxic doses
	Reprod sessme	luctive toxicity - As- ent	:	May damage ferti	lity. May damage the unborn child.
1	17-Hyd	lroxy-6-methyl-19-no	rpre	gna-4,6-diene-3,2	0-dione 17-acetate:
	Effects ment	on foetal develop-	:	Test Type: Develor Species: Rat Application Route Result: negative	
				Species: Rabbit Application Route	vo-foetal development e: Oral No teratogenic effects
	Reprod sessme	luctive toxicity - As- ent	:		of adverse effects on sexual function and an epidemiological studies.
1	Talc:				
E		on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development :: Ingestion

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

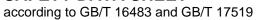
Estradiol:

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

according to GB/T 16483 and GB/T 17519

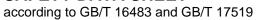


rsion ,	Revision Date: 2020/10/16	SDS Number: 17216-00016	Date of last issue: 2020/03/23 Date of first issue: 2014/09/30
Repe	ated dose toxicity		
Com	ponents:		
Cellu	lose:		
		: Rat : >= 9,000 mg/kg : Ingestion : 90 Days)
Estra	idiol:		
Expo			d, Ovary, Uterus (including cervix), Liver, Bon em, Blood, Testis
-		norpregna-4,6-diene-3	3,20-dione 17-acetate:
		: Mouse : 20 mg/kg : Oral : 52 Weeks	
		: Rat : 20 mg/kg : Oral : 52 Weeks	
Titan	ium dioxide:		
		: Rat : 24,000 mg/kg : Ingestion : 28 Days	
		: Rat : 10 mg/m3 : inhalation (dust : 2 yr	t/mist/fume)
-	r ation toxicity lassified based on ava	ailable information.	
Expe	rience with human e	exposure	
<u>Com</u>	ponents:		
Estra	idiol:		
Inhala	ation contact	: Symptoms: Ski	gling, Nose bleeding n irritation, Redness, pruritis adache, Gastrointestinal disturbance, Dizzi-





ersion 7	Revision Date: 2020/10/16		S Number: 216-00016	Date of last issue: 2020/03/23 Date of first issue: 2014/09/30
			change, chang ularities	es in libido, breast tenderness, menstrual irreg
17-Hy	droxy-6-methyl-19-nor	pre	gna-4,6-diene-3	3,20-dione 17-acetate:
Ingest	lion	:	breast tenderne	ne, amenorhea, Headache, Dizziness, Nausea ess, changes in libido, insomnia, musculoskele swings, muscle pain, muscle twitching
. ECOLO	DGICAL INFORMATION	١		
Ecoto	oxicity			
<u>Comp</u>	oonents:			
Cellul Toxici	l ose: ty to fish	:	Exposure time:	latipes (Japanese medaka)): > 100 mg/l 48 h ed on data from similar materials
Estra	diol:			
Toxici	ty to fish	:	LC50 (Oryzias Exposure time:	latipes (Japanese medaka)): 3.9 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	a magna (Water flea)): 2.7 mg/l 48 h
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time:	okirchneriella subcapitata (green algae)): 1.7 72 h 9 Test Guideline 201
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 1.7 72 h 9 Test Guideline 201
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time:	s latipes (Japanese medaka)): 0.000003 mg/l 160 d 9 Test Guideline 210
aquati	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphni Exposure time:	a magna (Water flea)): 0.2 mg/l 21 d
ic toxi M-Fac toxicit	ctor (Chronic aquatic	:	1,000	
	ty to microorganisms	:		
			NOEC: 100 mg Exposure time: Test Type: Res	





ersion .7	Revision Date: 2020/10/16		OS Number: 216-00016	Date of last issue: 2020/03/23 Date of first issue: 2014/09/30
			Method: OECD	Test Guideline 209
17-Hy	ydroxy-6-methyl-19-nor	rpre	gna-4,6-diene-3	3,20-dione 17-acetate:
Toxic plants	ity to algae/aquatic S	:	mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 3.07 72 h Test Guideline 201
			mg/l Exposure time:	okirchneriella subcapitata (green algae)): 0.69 72 h Test Guideline 201
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Zebrafis Exposure time:	sh): 0.0013 mg/l 27 d
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: Method: OECD	a magna (Water flea)): 3.65 mg/l 21 d Test Guideline 211 oxicity at the limit of solubility
	ctor (Chronic aquatic	:	10	
toxici Toxic	ity to microorganisms	:	Exposure time: Test Type: Res	microorganism): > 2.8 mg/l 3 h piration inhibition Test Guideline 209
			Exposure time: Test Type: Res Method: OECD	microorganism): 2.8 mg/l 3 h piration inhibition Test Guideline 209 oxicity at the limit of solubility
Talc:				
Toxic	ity to fish	:	LC50 (Brachyd Exposure time:	anio rerio (zebrafish)): > 100,000 mg/l 24 h
Titan	ium dioxide:			
Toxic	ity to fish	:	Exposure time:	nchus mykiss (rainbow trout)): > 100 mg/l 96 h Test Guideline 203
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): > 100 mg/l 48 h
Toxic plants	ity to algae/aquatic s	:	EC50 (Skeletor Exposure time:	nema costatum (marine diatom)): > 10,000 mg 72 h
Toxic	ity to microorganisms	:	EC50: > 1,000 Exposure time: Method: OECD	

according to GB/T 16483 and GB/T 17519



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Persi	stence and degradabi	lity		
<u>Com</u>	ponents:			
Cellu	lose:			
Biode	egradability	:	Result: Readily	biodegradable.
Estra	idiol:			
Biode	egradability	:	Result: rapidly of Biodegradation Exposure time:	: 84 %
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Estra	idiol:			
	ion coefficient: n- ol/water	:	log Pow: 4.01	
-	ydroxy-6-methyl-19-nc	orpre	-	
Bioac	cumulation	:		fish on factor (BCF): 44
	ion coefficient: n- ol/water	:	log Pow: 3.7	
Mobi	lity in soil			
Com	ponents:			
Estra	idiol:			
	bution among environ- al compartments	:	log Koc: 3.81	
-	ydroxy-6-methyl-19-nc	orpre	-	3,20-dione 17-acetate:
	bution among environ- al compartments	:	log Koc: 3.35 Method: OECD	Test Guideline 106
	r adverse effects ata available			
3. DISPC	SAL CONSIDERATIO	NS		
Dien	osal methods			
-	e from residues		Dispose of in a	ccordance with local regulations.

Waste from residues		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.

according to GB/T 16483 and GB/T 17519



ersion .7	Revision Date: 2020/10/16	SDS Number: 17216-00016	Date of last issue: 2020/03/23 Date of first issue: 2014/09/30
4. TRAN	SPORT INFORMATION	l	
Interr	national Regulations		
UNR	ſDG		
	umber	: UN 3077	
Prope	er shipping name	: ENVIRONMEN N.O.S.	ITALLY HAZARDOUS SUBSTANCE, SOLID,
		(Estradiol, 17-	Hydroxy-6-methyl-19-norpregna-4,6-diene-
Class		3,20-dione 17- : 9	acelale)
	ng group	: 111	
Label		: 9	
ΙΑΤΑ	-		
UN/IE Dropo		: UN 3077	ly bozardaya aybatanaa calid n a a
	er shipping name		ly hazardous substance, solid, n.o.s. Hydroxy-6-methyl-19-norpregna-4,6-diene- acetate)
Class		: 9	
	ng group	: III Minoritation -	
Label	s ng instruction (cargo	: Miscellaneous : 956	
aircra	• • •	. 330	
Packi ger ai	ng instruction (passen- rcraft)	: 956	
Enviro	onmentally hazardous	: yes	
IMDG	-Code		
	umber	: UN 3077	
Prope	er shipping name	: ENVIRONMEN N.O.S.	ITALLY HAZARDOUS SUBSTANCE, SOLID,
		(Estradiol, 17-h dione 17-aceta	Hydroxy-6-methyl-19-norpregna-4,6-diene-3,20 te)
Class		: 9	
	ng group	:	
Label EmS	-	: 9	
	e pollutant	: F-A, S-F : yes	
Trans	sport in bulk according	to Annex II of MA	RPOL 73/78 and the IBC Code
Not a	pplicable for product as	supplied.	
Natio	nal Regulations		
	944/12268		
	umber		
Рюре	er shipping name	N.O.S.	ITALLY HAZARDOUS SUBSTANCE, SOLID,
			Hydroxy-6-methyl-19-norpregna-4,6-diene- acetate)
Class		: 9	,
Packi	ng group	: 111	
Label	S	: 9	



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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.

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases

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

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

16. OTHER INFORMATION

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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/
Date format	:	yyyy/mm/dd
Full text of other abbreviatio	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CN OEL	:	Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
ACGIH / TWA	:	8-hour, time-weighted average
CN OEL / PC-TWA	:	Permissible concentration - 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



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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; 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

Disclaimer

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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