

Version 5.5	Revision Date: 16.10.2020		S Number: 09-00016	Date of last issue: 23.03.2020 Date of first issue: 30.09.2014
SECTION	1. PRODUCT AND C	OMPA	NY IDENTIFICAT	ION
Prod	uct name	:	Nomegestrol / Es	stradiol Formulation
Man	ufacturer or supplier's	s detai	ls	
Com	pany	:	Organon & Co.	
Addr	ess	:	Rua Treze de Ma Campinas, São I	aio, 1161 Paulo, Brazil B-2220
Telep	phone	:	551-430-6000	
Eme	rgency telephone	:	215-631-6999	
E-ma	il address	:	EHSSTEWARD	@organon.com
	ommended use of the ommended use	••	cal and restriction	ons on use

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

Carcinogenicity	:	Category 1A
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 1 (Liver, Bone, Blood, Endocrine system)
Short-term (acute) aquatic hazard	:	Category 3
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements in accordance with ABNT NBR 14725 Standard

:

×

Signal Word

: Danger

Hazard Statements

Hazard pictograms

 H350 May cause cancer.
 H360FD May damage fertility. May damage the unborn child.
 H372 Causes damage to organs (Liver, Bone, Blood, Endocrine system) through prolonged or repeated exposure.
 H402 Harmful to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.



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Preca	utionary Statements	P260 Do not b P273 Avoid re	elease to the environment. otective gloves/ protective clothing/ eye protec-
		Response: P308 + P313 attention. P391 Collect s	IF exposed or concerned: Get medical advice/

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.	Classification	Concentration (% w/w)
Cellulose	9004-34-6		>= 10 -< 20
Estradiol	50-28-2	Acute toxicity (Oral), Category 5 Carcinogenicity, Category 1A Reproductive toxicity, Category 1A Specific target organ toxicity - repeated exposure (Liver, Bone, Blood, Endocrine sys- tem), Category 1 Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 1	>= 2,5 -< 5
17-Hydroxy-6-methyl-19- norpregna-4,6-diene-3,20- dione 17-acetate	58652-20-3	Acute toxicity (Oral), Category 5 Reproductive toxicity, Category 1A Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 1	>= 1 -< 2,5
Talc	14807-96-6		>= 1 -< 5



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Tit	tanium dioxide	13463-67-7Carcinogenicity (Inha- lation), Category 2>= 0,1 -< 1					
SECTI	ON 4. FIRST AID MEASUF	ES					
Ge	eneral advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. 					
lf i	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.					
lf s	swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.					
an	ost important symptoms id effects, both acute and elayed	 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. 					
Pr	otection of first-aiders	 Dust contact with the eyes can lead to mechanical irritation. 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). 					
No	otes to physician	: Treat symptomatically and supportively.					

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known.
media 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)
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.



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	ial protective equipment e-fighters	:	Remove undama so. Evacuate area. In the event of fire	o cool unopened containers. ged containers from fire area if it is safe to do e, wear self-contained breathing apparatus. tective equipment.
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe hand	tective equipment. ing advice (see section 7) and personal rent recommendations (see section 8).
Envir	onmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		container for disp Avoid dispersal or with compressed Dust deposits sho surfaces, as these released into the Local or national disposal of this m employed in the or determine which Sections 13 and	dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe 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 assessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges.



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		Take care to p environment.	nk or smoke when using this product. revent spills, waste and minimize release to the			
Hygiene measures		 If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. 				
Conditions for safe storage		: Keep in proper Store locked u Keep tightly clo	ly labeled containers. p.			
Materials to avoid		 Do not store with the following product types: Strong oxidizing agents Organic peroxides Explosives Gases 				

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m ³	ACGIH
Estradiol	50-28-2	TWA	0.05 µg/m3 (OEB 5)	Internal
	Further inform	ation: 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	TWA (Respirable particulate matter)	2 mg/m ³	ACGIH
Titanium dioxide	13463-67-7	TWA	10 mg/m ³ (Titanium dioxide)	ACGIH

Ingredients with workplace control parameters

Engineering measures

: Minimize workplace exposure concentrations.

Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment

Respiratory protection	:	If adequate local exhaust ventilation is not available or
		exposure assessment demonstrates exposures outside the
		recommended guidelines, use respiratory protection.



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	ter type protection	: Particulates	уре
Ma	aterial	: Chemical-res	sistant gloves
Re	emarks	on the conce time is not de For special a resistance to gloves with t	es to protect hands against chemicals depending ntration specific to place of work. Breakthrough etermined for the product. Change gloves often! pplications, we recommend clarifying the chemicals of the aforementioned protective ne glove manufacturer. Wash hands before it the end of workday.
Eye p	protection		owing personal protective equipment:
Skin a	and body protection	: Select appro resistance da potential. Skin contact	priate protective clothing based on chemical ata and an assessment of the local exposure must be avoided by using impervious protective ves, aprons, boots, etc).

Appearance	:	powder
Color	:	white
Odor	:	odorless
Odor 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	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available

SAFETY DATA SHEET



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	Relativ Density	e density	:	No data available 1 g/cm³	9
	Solubil		:	No data available	9
	octano	n coefficient: n- l/water nition temperature	:	No data available No data available	
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, dynamic	:	No data available	9
	Viso	cosity, kinematic	:	No data available	9
	Explos	ive properties	:	Not explosive	
		ng properties Ilar weight	:	The substance o	r mixture is not classified as oxidizing.
	Particle	-	:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during process handling or other means. Can react with strong oxidizing agents.	ing,
Conditions to avoid	Heat, flames and sparks. Avoid dust formation.	
Incompatible materials	Oxidizing agents	
Hazardous decomposition products	No hazardous decomposition products are known.	

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method



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<u>Com</u> p	oonents:			
Cellu	lose:			
	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): >	2.000 mg/kg
Estra	diol:			
	oral toxicity	:	LD50 (Rat): > 2.0	00 mg/kg
	toxicity (other routes of histration)	:	LD50 (Rat): > 300 Application Route	
17-H\	/droxy-6-methyl-19-nor	nre	ana-1 6-diono-3 2	0-dione 17-acetate:
-	oral toxicity	:	LD50 (Rat): > 2.0	
			LD50 (Mouse): >	
	toxicity (other routes of histration)	:	LD50 (Rat): > 2.0 Application Route	
Talc:				
Acute	oral toxicity	:	LD50 (Rat): > 5.0 Remarks: Based	00 mg/kg on data from similar materials
Titani	ium dioxide:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 6,8 Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	h
	corrosion/irritation lassified based on availa	ble	information.	
<u>Com</u>	oonents:			
Talc:				
Speci Resul		:	Rabbit No skin irritation	
Titan	ium dioxide:			
Speci	es	:	Rabbit	



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Resul	t	: No skin irritatior	I
Serio	us eye damage/eye	irritation	
Not cla	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Estra	diol:		
Resul	t	: No eye irritation	
Talc:			
Specie	es	: Rabbit	
Resul		: No eye irritation	
Titani	um dioxide:		
Specie	es	: Rabbit	
Resul	t	: No eye irritation	
Respi	ratory or skin sens	tization	
Skin s	sensitization		
Not cl	assified based on av	ailable information.	
-	ratory sensitization assified based on av		
Comp	oonents:		
Estra	diol:		
	s of exposure	: Skin contact	
Specie		: Guinea pig	
	sment		skin sensitization.
Resul	t	: negative	
Talc:			
	s of exposure	: Skin contact	
Specie Result		: Humans	
Resul	l	: negative	
Titani	um dioxide:		
Test T			de assay (LLNA)
Route Specie	s of exposure	: Skin contact : Mouse	
Resul		: negative	
Germ	cell mutagenicity		
	assified based on av	ailable information.	
Comp	oonents:		
Cellul			



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Genot	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) pative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test gative
Genot	toxicity in vivo	cytogenetic Species: M	ouse Route: Ingestion
Estra	diol:		
Genot	toxicity in vitro	thesis in m	DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) n: mammalian cells iitive
			Chromosome aberration test in vitro n: mammalian cells itive
			Chromosomal aberration n: mammalian cells itive
Genot	toxicity in vivo	Species: R	Bone marrow
		Species: M	Bone marrow
17-Hy	droxy-6-methyl-19-	norpregna-4,6-die	ne-3,20-dione 17-acetate:
Genot	toxicity in vitro	: Test Type: Result: neg	
		Test Type: Result: neg	Chromosome aberration test in vitro pative
			DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) gative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test gative
Genot	toxicity in vivo	Species: R	Route: Oral



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		Test Type: In vivo mic Species: Mouse Application Route: Ora Result: negative	
Talc:			
Geno	toxicity in vitro	: Test Type: DNA dama thesis in mammalian o Result: negative	age and repair, unscheduled DNA syn cells (in vitro)
Geno	toxicity in vivo	: Test Type: Chromoso Species: Rat Application Route: Ing Result: negative	me aberration test in vitro lestion
Titan	ium dioxide:		
Geno	toxicity in vitro	: Test Type: Bacterial re Result: negative	everse mutation assay (AMES)
Geno	toxicity in vivo	: Test Type: In vivo mic Species: Mouse Result: negative	ronucleus test
	nogenicity cause cancer.		
<u>Comp</u>	oonents:		
	es cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Estra	diol:		
Expos	cation Route sure time	: Mouse : Ingestion : 24 Months : 100 µg/kg	
LOAE Resul Targe		: positive : female reproductive o	rgans
Resul Targe Speci Applic Expos LOAE Resul	t et Organs cation Route sure time L		



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17-Hv	droxy-6-methyl-19-n	ornrea	na-4 6-diene	-3,20-dione 17-acetate:
Speci			Rat	
	ation Route		oral (feed)	
	y duration		52 Weeks	
ACTIVIT	yuuration		10 mg/kg boo	hy woight
Resul	ł		negative	iy weight
Resul	L		legative	
Speci	es	• 1	Mouse	
	ation Route		oral (feed)	
			20 mg/kg boo	dv weight
Resul	t		positive	.,
	t Organs			and, Pituitary gland
Carcir ment	nogenicity - Assess-		Weight of evi	dence does not support classification as a car-
Talc:				
Speci	es	: 1	Mouse	
•	ation Route			ist/mist/fume)
	sure time		2 Years	
Resul			negative	
Titoni	um dioxide:			
Speci			Rat	
	ation Route		•	ist/mist/fume)
	sure time		2 Years	Nideline 450
Metho				Guideline 453
Resul			positive	om or mode of ection movingt he relevant in hu
Rema	IKS		mans.	sm or mode of action may not be relevant in hu
Carcir ment	nogenicity - Assess-		Limited evide animals.	nce of carcinogenicity in inhalation studies with
May d	oductive toxicity lamage fertility. May d ponents:	amage	the unborn c	hild.
Cellul	ose:			
	s on fertility			ne-generation reproduction toxicity study
LIICOL	3 Off Tertility		Species: Rat	ne-generation reproduction toxicity study
				oute: Ingestion
			Result: negat	
			0	
Effect	s on fetal developmen			ertility/early embryonic development
			Species: Rat	
				oute: Ingestion
		I	Result: negat	ive
Estra	diol:			
	diol: s on fertility		Test Type: O	ne-generation reproduction toxicity study



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			Species: Rat Application Route Fertility: LOAEL: (Result: Effects on),5 mg/kg body weight
			Species: Rat Duration of Single),69 mg/kg body weight
			Test Type: Two-g Species: Mouse Application Route Fertility: LOAEL: (Result: Effects on	: Oral 0,1 mg/kg body weight
Effec	ts on fetal development	:	Species: Mouse, Application Route Teratogenicity: LC Symptoms: Malfo	
			Species: Rat Application Route Teratogenicity: LC 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-fetal 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 tected only at high maternally toxic doses
Repro sessr	oductive toxicity - As- ment	:	May damage ferti	lity. May damage the unborn child.
17-H	ydroxy-6-methyl-19-noi	rpre	gna-4,6-diene-3,2	0-dione 17-acetate:
		:	Test Type: Develor Species: Rat Application Route Result: negative	opment
			Species: Rabbit Application Route	ro-fetal development : Oral No teratogenic effects.



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Repro sessm	ductive toxicity - As- nent	:		e of adverse effects on sexual function and nan epidemiological studies.
Talc: Effects	s on fetal development	:	Test Type: Emb Species: Rat Application Rout Result: negative	
	-single exposure assified based on availa	ıble	information.	
STOT	-repeated exposure			
	es damage to organs (Li	ver	Bone, Blood, En	docrine system) through prolonged or repeat
<u>Comp</u>	oonents:			
Estra	diol:			
•	t Organs sment	:		od, Endocrine system to organs through prolonged or repeated
-	ated dose toxicity			
Comp	oonents:			
Cellul				
Specie NOAE		:	Rat	
	:∟ ation Route		>= 9.000 mg/kg Ingestion	
	sure time	:	90 Days	
Estra	diol:			
Specie			Rat	
LOAE	es	:	Nat	
	L	:	>= 0,17 mg/kg	
Applic	L ation Route	:	>= 0,17 mg/kg Ingestion	
Applic Expos	L	:	>= 0,17 mg/kg Ingestion 90 d Mammary gland	, Ovary, Uterus (including cervix), Liver, Bon m, Blood, Testis
Applic Expos Targe	L ation Route sure time	rpre	>= 0,17 mg/kg Ingestion 90 d Mammary gland Endocrine syste	m, Blood, Testis
Applic Expos Targe 17-Hy Specie	L ation Route sure time t Organs droxy-6-methyl-19-no es	rpre	>= 0,17 mg/kg Ingestion 90 d Mammary gland Endocrine syste gna-4,6-diene-3, Mouse	m, Blood, Testis
Applic Expos Targe 17-Hy Specie NOAE	L ation Route sure time t Organs droxy-6-methyl-19-no es EL	rpre	>= 0,17 mg/kg Ingestion 90 d Mammary gland Endocrine syste gna-4,6-diene-3 , Mouse 20 mg/kg	m, Blood, Testis
Applic Expos Targe 17-Hy Specie NOAE Applic	L ation Route sure time t Organs droxy-6-methyl-19-no es	rpre	>= 0,17 mg/kg Ingestion 90 d Mammary gland Endocrine syste gna-4,6-diene-3, Mouse	m, Blood, Testis
Applic Expos Targe 17-Hy Specie NOAE Applic	L ation Route sure time t Organs droxy-6-methyl-19-no es EL ation Route sure time	rpre	>= 0,17 mg/kg Ingestion 90 d Mammary gland Endocrine syste gna-4,6-diene-3, Mouse 20 mg/kg Oral	m, Blood, Testis
Applic Expose Targe 17-Hy Specie NOAE Applic Expose Specie NOAE	L ation Route sure time t Organs droxy-6-methyl-19-no es EL ation Route sure time	rpre	>= 0,17 mg/kg Ingestion 90 d Mammary gland Endocrine syste gna-4,6-diene-3, Mouse 20 mg/kg Oral 52 Weeks	m, Blood, Testis

plants



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Titani	um dioxide:						
Speci	es	:	Rat				
NOAEL		:	24.000 mg/kg				
	ation Route	:	Ingestion 28 Days				
Expos	sure time	•	20 Days				
Speci		:	Rat				
NOAE		:	 10 mg/m³ inhalation (dust/mist/fume) 2 y 				
	ation Route sure time	:					
Слрос		•	2 y				
Aspir	ation toxicity						
Not cl	assified based on availa	ble	information.				
Expe	rience with human exp	osı	ire				
Comp	oonents:						
Estra	diol:						
Inhala	tion	:	Symptoms: tingli	ng, Nose bleeding			
Skin d	contact	:	Symptoms: Skin	irritation, Redness, pruritis			
Ingest	tion	:		ache, Gastrointestinal disturbance, Dizzi-			
				Diarrhea, water retention, liver function in libido, breast tenderness, menstrual irre			
			ularities				
17-Hy	droxy-6-methyl-19-noi	pre	gna-4,6-diene-3,2	0-dione 17-acetate:			
Ingest	tion	:		amenorhea, Headache, Dizziness, Nause			
				s, changes in libido, insomnia, musculoske			
			tai pain, mood sv	vings, muscle pain, muscle twitching			
CTION	12. ECOLOGICAL INFO	DR	IATION				
Ecoto	oxicity						
	-						
Comp	oonents:						
Cellul							
Toxici	ty to fish	:		ipes (Japanese medaka)): > 100 mg/l			
			Exposure time: 4 Remarks: Based	on data from similar materials			
Estra	diol:						
Toxici	ty to fish	:	LC50 (Oryzias la	ipes (Japanese medaka)): 3,9 mg/l			
			Exposure time: 9				
Toxici	ty to daphnia and other		EC50 (Daphnia r	nagna (Water flea)): 2,7 mg/l			
	ic invertebrates	•	Exposure time: 4				
-							
Toxici	ty to algae/aquatic	:	NOEC (Pseudok	rchneriella subcapitata (green algae)): 1,7			

Method: OECD Test Guideline 201

Exposure time: 72 h

mg/l



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			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te		
Toxic icity)	Toxicity to fish (Chronic tox- icity)		NOEC (Oryzias latipes (Japanese medaka)): 0,000003 mg/l Exposure time: 160 d Method: OECD Test Guideline 210		
aqua	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,2 mg/l I d	
M-Fa	ctor (Chronic aquatic	:	1.000		
toxici Toxic	ity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition	
			NOEC: 100 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition	
17-H	ydroxy-6-methyl-19-nor	pre	gna-4,6-diene-3,2	0-dione 17-acetate:	
Toxic plant	sity to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
Toxic icity)	to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 27		
	tity to daphnia and other tic invertebrates (Chron- cicity)	:	Exposure time: 21 Method: OECD Te		
	ctor (Chronic aquatic	:	10		
toxici Toxic	ty) sity to microorganisms	:	EC50 (Natural mid Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition	
			NOEC (Natural m Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition	



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			Remarks: No to	oxicity at the limit of solubility.
Talc:				
	ty to fish	:	LC50 (Brachyd Exposure time:	anio rerio (zebrafish)): > 100.000 mg/l 24 h
Titani	um dioxide:			
Toxici	ty to fish	:	Exposure time:	vnchus mykiss (rainbow trout)): > 100 mg/l 96 h 9 Test Guideline 203
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time:	a magna (Water flea)): > 100 mg/l 48 h
Toxici plants	ty to algae/aquatic	:	EC50 (Skeletor Exposure time:	nema costatum (marine diatom)): > 10.000 m 72 h
Toxici	ty to microorganisms	:	EC50: > 1.000 Exposure time: Method: OECD	
Persis	stence and degradabil	ity		
<u>Components:</u>				
Cellul	ose:			
Biode	gradability	:	Result: Readily	biodegradable.
Estrad	diol			
	gradability	:	Result: rapidly Biodegradatior Exposure time:	n: 84 %
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Estrad	diol:			
	on coefficient: n- bl/water	:	log Pow: 4,01	
17-Hy	droxy-6-methyl-19-noi	rpre	•	
Bioaco	cumulation	:	Species: Zebra Bioconcentratio	ifish on factor (BCF): 44
	on coefficient: n- bl/water	:	log Pow: 3,7	
Mobil	ity in soil			
Comp	onents:			
Estra				



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	ibution among environ- tal compartments	:	log Koc: 3,81			
17-H	17-Hydroxy-6-methyl-19-norpregna-4,6-diene-3,20-dione 17-acetate:					
	ibution among environ- tal compartments	:	log Koc: 3,35 Method: OECD Test Guideline 106			
	er adverse effects lata available					
SECTION	I 13. DISPOSAL CONSII	DER	ATIONS			
Disp	osal methods					
	te from residues aminated packaging	:	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.			
SECTION	14. TRANSPORT INFO	RM	ATION			
Inter	national Regulations					
	-					
UN r	t DG number ner shipping name	:	N.O.S. (Estradiol, 17-Hy	ALLY HAZARDOUS SUBSTANCE, SOLID, droxy-6-methyl-19-norpregna-4,6-diene-		
Clas Pack Labe	king group	:	3,20-dione 17-ac 9 III 9	etate)		
IATA	A-DGR					
			nazardous substance, solid, n.o.s. droxy-6-methyl-19-norpregna-4,6-diene- etate)			
Clas		:	9			
	king group	:	 Missellenseus			
Labe Pack aircra	king instruction (cargo	:	Miscellaneous 956			
Pack	king instruction (passen-	:	956			
	ronmentally hazardous	:	yes			
IMD UN r	G-Code humber er shipping name	:	UN 3077 ENVIRONMENTA N.O.S. (Estradiol, 17-Hyd	ALLY HAZARDOUS SUBSTANCE, SOLID, droxy-6-methyl-19-norpregna-4,6-diene-3,20-		
Clas Pack Labe	king group	:	dione 17-acetate) 9 1 III 9 1 9			



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EmS Code Marine pollutant		:	F-A, S-F yes	POL 72/79 and the IPC Code
	pplicable for product as			RPOL 73/78 and the IBC Code
Dom	estic regulation			
-	T umber er shipping name	:	N.O.S. (Estradiol, 17-I	TALLY HAZARDOUS SUBSTANCE, SOLID, Hydroxy-6-methyl-19-norpregna-4,6-diene-
Label	ing group	: : : :	3,20-dione 17-a 9 III 9 90	acetate)
Spec	ial precautions for use	r		
based Shee variat	d upon the properties of t	he ation	unpackaged mat ons may vary by egulations.	for informational purposes only, and solely terial as it is described within this Safety Data mode of transportation, package sizes, and
mixtu	ure		-	egislation specific for the substance or
Natio	nal List of Carcinogenic	٩ge	ents for Humans	- (LINACH)
17-H	p 2B: Possibly carcinoge ydroxy-6-methyl-19-norp p 2B: Possibly carcinoge	reg	na-4,6-diene-3,20	0-dione 17-acetate 58652-20-3
Titani	ium dioxide			13463-67-7
Brazi Police		olle	d by the Federal	: Not applicable
Inter	national Regulations			
The i AICS	• ·	uct :	are reported in not determined	the following inventories:
DSL		:	not determined	
IECS	С	:	not determined	

SECTION 16. OTHER INFORMATION

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-



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	Data Sheet		cy, http://echa.eu	ropa.eu/
		t of other abbreviatio		
	ACGIH		: USA. ACGIH Thre	eshold Limit Values (TLV)
	ACGIH	/ TWA	: 8-hour, time-weig	hted average
	ACGIH / TWA AIIC - Australian Inventory of Land of Brazil; ASTM - Americ Carcinogen, Mutagen or Rep Standardisation; DSL - Domes x% response; ELx - Loading ENCS - Existing and New Ch x% growth rate response; ERC tem; GLP - Good Laboratory P - International Air Transport Equipment of Ships carrying I centration; ICAO - Internationa cal Substances in China; IMD Maritime Organization; ISHL - ganisation for Standardization centration to 50 % of a test po Lethal Dose); MARPOL - Inter n.o.s Not Otherwise Specifie Concentration; NO(A)EL - No Loading Rate; NOM - Official Zealand Inventory of Chemica ment; OPPTS - Office of Chem lative and Toxic substance; PI es; (Q)SAR - (Quantitative) 1907/2006 of the European Pa Authorisation and Restriction ture; SDS - Safety Data Sheet tion of Dangerous Goods; TSC tions; UNRTDG - United Natio		ican Society for the To productive Toxicant; I stic Substances List (C rate associated with hemical Substances (G - Emergency Respondent Practice; IARC - Intern Association; IBC - I Dangerous Chemicals al Civil Aviation Organ DG - International Ma - Industrial Safety and by KECI - Korea Existic opulation; LD50 - Leth ternational Convention ed; Nch - Chilean Nor o Observed (Adverse) Mexican Norm; NTP als; OECD - Organization mical Safety and Pollut ICCS - Philippines Inv Structure Activity R arliament and of the C of Chemicals; SADT t; TCSI - Taiwan Cher CA - Toxic Substances ons Recommendations	s; ANTT - National Agency for Transport by esting of Materials; bw - Body weight; CMR - DIN - Standard of the German Institute for Canada); ECx - Concentration associated with x% response; EmS - Emergency Schedule; Japan); ErCx - Concentration associated with onse Guide; GHS - Globally Harmonized Sys- ational Agency for Research on Cancer; IATA nternational Code for the Construction and a in Bulk; IC50 - Half maximal inhibitory con- tization; IECSC - Inventory of Existing Chemi- ritime Dangerous Goods; IMO - International d Health Law (Japan); ISO - International Or- ing Chemicals Inventory; LC50 - Lethal Con- nal Dose to 50% of a test population (Median of the Prevention of Pollution from Ships; m; NO(A)EC - No Observed (Adverse) Effect Effect Level; NOELR - No Observable Effect - National Toxicology Program; NZIoC - New tion for Economic Co-operation and Develop- tion Prevention; PBT - Persistent, Bioaccumu- entory of Chemicals and Chemical Substanc- elationship; REACH - Regulation (EC) No ouncil concerning the Registration, Evaluation, - Self-Accelerating Decomposition Tempera- nical Substance Inventory; TDG - Transporta- s Control Act (United States); UN - United Na- s on the Transport of Dangerous Goods; vPvB MIS - Workplace Hazardous Materials Infor-

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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