

Version 7.2	Revision Date: 06.04.2024	-	S Number: 04-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
	1: IDENTIFICATION			
Produ	uct name	:	Nomegestrol / Es	stradiol Formulation
Manu	ufacturer or supplier's d	letai	ls	
Com	pany	:	Organon & Co.	
Addre	ess	:	30 Hudson Stree Jersey City, New	t, 33nd floor Jersey, U.S.A 07302
Telep	bhone	:	+1-551-430-6000)
Emer	gency telephone number	· :	+1-215-631-6999)
E-ma	il address	:	EHSSTEWARD@	⊉organon.com
Reco	ommended use of the ch	nem	ical and restrictic	ons on use
	mmended use rictions on use	:	Pharmaceutical Not applicable	
SECTION	2. HAZARDS IDENTIFIC	САТ	ION	
GHS	Classification			
			Ostanswi 4A	

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	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.



Version	Revision Date:	SDS Number:	Date of last issue: 26.09.2023
7.2	06.04.2024	17204-00023	Date of first issue: 30.09.2014

P260 Do not breathe dust.P264 Wash skin thoroughly after handling.P270 Do not eat, drink or smoke when using this product.P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked 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.



Versi 7.2	ion	Revision Date: 06.04.2024	-	9S Number: 204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
	If swallowed Most important symptoms and effects, both acute and delayed		:	Get medical atten Rinse mouth thord May cause cance May damage ferti Causes damage t exposure.	oughly with water.
		ion of first-aiders o physician	:	Dust contact with First Aid responde and use the recor when the potentia	the eyes can lead to mechanical irritation. ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8). cally and supportively.
SEC	TION 5	. FIREFIGHTING MEA	SU	RES	
	Unsuita	e extinguishing media able extinguishing	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical None known.	
	media Specific fighting	c hazards during fire-	:	concentrations, an potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (1	NOx)
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	for firef	l protective equipment ighters em Code	:		e, wear self-contained breathing apparatus. rective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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.



Version	Revision Date:	SDS Number:	Date of last issue: 26.09.2023
7.2	06.04.2024	17204-00023	Date of first issue: 30.09.2014
	ods and materials for nment and cleaning up	tainer for dispor Avoid dispersal with compresse Dust deposits s es, as these ma leased into the Local or nationa posal of this ma employed in the mine which reg Sections 13 an	of dust in the air (i.e., clearing dust surfaces

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. 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. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
Hygiene measures	:	environment. 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.
Conditions for safe storage	:	Wash contaminated clothing before re-use. Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents



Version	Revision Date:	SDS Number:	Date of last i
7.2	06.04.2024	17204-00023	Date of first i

Date of last issue: 26.09.2023 Date of first issue: 30.09.2014

SECTION 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	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3	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	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

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 expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand protection	:	Particulates type
Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Eye protection	:	Wear the following personal protective equipment:



Version 7.2	Revision Date: 06.04.2024		S Number: 204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
Skin an	d body protection	:	resistance data an potential. Skin contact must	e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).
SECTION 9.	PHYSICAL AND CHE	ΞΜΙΟ	CAL PROPERTIES	6
Appeara	ance	:	powder	
Colour		:	white	
Odour		:	odourless	
Odour 1	Threshold	:	No data available)
рН		:	No data available	9
Melting	point/freezing point	:	No data available	9
Initial bo range	piling point and boiling	:	No data available	3
Flash p	oint	:	No data available	9
Evapora	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	9
Density		:	1 g/cm ³	
Solubilit Wate	ty(ies) er solubility	:	No data available	9
	n coefficient: n-	:	No data available	9
octanol/ Auto-igr	water nition temperature	:	No data available	2

SAFETY DATA SHEET



Nomegestrol / Estradiol Formulation

Version 7.2	Revision Date: 06.04.2024		S Number: 204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
Dec	omposition temperature	:	No data available	e
	osity /iscosity, dynamic	:	No data available	9
١	/iscosity, kinematic	:	No data available	e
Exp	losive properties	:	Not explosive	
Oxic	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	ecular weight	:	No data available	e
	icle characteristics icle size	:	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 processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials	:	Heat, flames and sparks. Avoid dust formation. Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on availa	ble	information.
Components:		
Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist



Version 7.2	Revision Date: 06.04.2024		0S Number: 204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
Ас	ute dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
	t radiol: ute oral toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
	ute toxicity (other routes of ninistration)	:	LD50 (Rat): > 300 Application Route	
	Hydroxy-6-methyl-19-nor ute oral toxicity	-	gna-4,6-diene-3,2 LD50 (Rat): > 2,00	
	ute toxicity (other routes of ninistration)	:	LD50 (Mouse): > 2 LD50 (Rat): > 2,00 Application Route	00 mg/kg
Tal Act	c: ute oral toxicity	:	LD50 (Rat): > 5,00 Remarks: Based (00 mg/kg on data from similar materials
	anium dioxide: ute oral toxicity	:	LD50 (Rat): > 5,00	
	ute inhalation toxicity		LC50 (Rat): > 6.82 Exposure time: 4 Test atmosphere:	2 mg/l h
	in corrosion/irritation t classified based on availa	ble	information.	
<u>Co</u>	mponents:			
	c: ecies sult	:	Rabbit No skin irritation	
Spe	anium dioxide: ecies sult	:	Rabbit No skin irritation	

Serious eye damage/eye irritation

Not classified based on available information.



rsion	Revision Date: 06.04.2024	SDS Number: 17204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
0			
Comp	oonents:		
Estra			
Resul	lt	: No eye irritation	ſ
Talc:			
Speci		: Rabbit	
Resul	lt	: No eye irritation	1
	ium dioxide:		
Speci		: Rabbit	
Resul	lt	: No eye irritation	1
Resp	iratory or skin sens	tisation	
_	sensitisation		
Not cl	lassified based on av	ailable information.	
Resp	iratory sensitisation		
Not cl	lassified based on av	ailable information.	
<u>Comp</u>	ponents:		
Estra	diol:		
	sure routes	: Skin contact	
Speci	es ssment	: Guinea pig	e skin sensitisation.
Resul		: negative	e skin sensitisation.
Resul	it.	. negative	
Talc:			
	sure routes	: Skin contact	
Speci Resul		: Humans : negative	
	ium dioxide:		
Test T	i ype sure routes	: Local lymph no : Skin contact	de assay (LLNA)
Speci		: Mouse	
Resul		: negative	
Chroi	nic toxicity		
	cell mutagenicity		
	lassified based on av	ailable information.	
	oonents:		
Cellu			
	toxicity in vitro	: Test Type: Bac	terial reverse mutation assay (AMES)



ersion 2	Revision Date: 06.04.2024	SDS Number: 17204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
		Result: negativ	e
		-	itro mammalian cell gene mutation test
		Result: negativ	
Geno	toxicity in vivo	: Test Type: Mar cytogenetic ass Species: Mous Application Rou Result: negativ	e ute: Ingestion
Estra	diol:		
Geno	toxicity in vitro	thesis in mamn	A damage and repair, unscheduled DNA syn- nalian cells (in vitro) nammalian cells e
			omosome aberration test in vitro nammalian cells
			omosomal aberration nammalian cells
Geno	toxicity in vivo	: Test Type: Chr Species: Rat Cell type: Bone Result: negativ	
		Test Type: Chr Species: Mous Cell type: Bone Result: negativ	e marrow
17-Hy	ydroxy-6-methyl-19	-norpregna-4,6-diene-3	3,20-dione 17-acetate:
Geno	toxicity in vitro	: Test Type: Am Result: negativ	
		Test Type: Chr Result: negativ	omosome aberration test in vitro e
			A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e
		Test Type: In v Result: negativ	itro mammalian cell gene mutation test e
Geno	toxicity in vivo	: Test Type: In v Species: Rat	ivo micronucleus test



ersion 2	Revision Date: 06.04.2024	SDS Number: 17204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
		Application R Result: negat	
			vivo micronucleus test
		Species: Mou Application R Result: negat	oute: Oral
Talc:			
Genot	toxicity in vitro		NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) ive
Genot	toxicity in vivo	Species: Rat	nromosome aberration test in vitro
		Application R Result: negat	oute: Ingestion ive
Titani	um dioxide:		
Genot	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
Genot	toxicity in vivo	: Test Type: In Species: Mou Result: negat	
	nogenicity ause cancer.		
Comp	oonents:		
Cellul	lose:		
Speci		: Rat	
	ation Route	: Ingestion : 72 weeks	
Resul		: negative	
Estra	diol:		
Speci		: Mouse	
	ation Route	: Ingestion	
LOAE	sure time L	: 24 Months : 100 µg/kg	
Resul		: positive	
Targe	t Organs	•	ductive organs
Speci		: Rat	_
	ation Route	: Subcutaneou : 13 weeks	S
LOAE		: 20 mg/kg boc	ly weight
Resul		: positive	



sion	Revision Date: 06.04.2024	SDS Nui 17204-0		Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
Targe	et Organs	: Endo	ocrine system	
Carcii ment	nogenicity - Assess-	: Posit	tive evidence	from human epidemiological studies
17-Hy	/droxy-6-methyl-19-n	orpregna-4	,6-diene-3,2	0-dione 17-acetate:
Speci		: Rat		
	cation Route		(feed)	
Activi	ty duration		/eeks	
Deeul	14		g/kg body w	eight
Resul	I	: nega	ltive	
Speci		: Mous		
Applic	cation Route		(feed)	
р	14		g/kg body w	eight
Resul		: posit		
rarge	et Organs	: Marn	imary giand,	Pituitary gland
Carcii ment	nogenicity - Assess-	: Weig cinog	•	e does not support classification as a car
		0	,	
Talc:				
Speci	es	: Mous	se	
	cation Route	: inhal	ation (dust/m	ist/fume)
	sure time	: 2 Ye		
Resul	t	: nega	itive	
Titan	ium dioxide:			
Speci	es	: Rat		
	cation Route		ation (dust/m	ist/fume)
•••	sure time	: 2 Ye	•	
Metho		: OEC	D Test Guide	eline 453
Resul	t	: posit		
Rema	arks	: The	mechanism o	r mode of action may not be relevant in h
		mans	S.	
Carcii ment	nogenicity - Assess-	: Limit anim		of carcinogenicity in inhalation studies wit
Repr	oductive toxicity			
-	damage fertility. May d	amage the	unborn child.	
<u>Comp</u>	oonents:			
Cellu	lose:			
Effect	s on fertility	: Test	Type: One-g	eneration reproduction toxicity study
	-	Spec	cies: Rat	
			ication Route	: Ingestion
		Resu	It: negative	
Effect	s on foetal develop-	: Test	Type: Fertilit	y/early embryonic development



ment Species: Rat Application Route: Ingestion Result: negative Estradiol: : Effects 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: Nouse Application Route: Oral Fertility: LOAEL: 0.1 mg/kg body weight Result: Effects on fertility Effects on foetal develop- ment : 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: Embryo-foetal development Species: Rat Application Route: Subcutaneous Teratogenicity: LOAEL: 2.5 µg/kg body weight Symptoms: Malformations were observed. Result: positive, Teratogenic effects Test Type: Embryo-foetal development Species: Rat Application Route: Subcutaneous Teratogenicity: LOAEL: 2.5 µg/kg body weight Symptoms: Reduced body weight Result: positive, Rembryotoxic effects and adverse effects on the offspring were detected. Test Type: Embryo-foetal development Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: 0.2 mg/kg body weight Symptoms: Early Resorptions / resorption rate, Reduced number of viable fetuses, Reduced body weight Result: positive, Embryotoxic effects and adverse effects on the off- spring were detected only at high maternally toxic doseset an mber of viable fetuses, Reduced body wei		Revision Date: 06.04.2024	SDS Number: 17204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
Effects 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 fertilityTest 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 fertilityTest Type: Two-generation study Species: Mouse Application Route: Ing/kg body weight Result: Effects on fertilityEffects on foetal develop- ment:Test Type: Two-generation study Species: Mouse Application Route: Oral Fertility: LOAEL: 0.1 mg/kg body weight Result: Effects on fertility:Test Type: Embryo-foetal development Species: Rouse, famale Application Route: Subcutaneous Teratogenicity: LOAEL: 4 mg/kg body weight Symptoms: Nalformations were observed. Result: positive, Teratogenic effects:Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Subcutaneous Teratogenicity: LOAEL: 2.5 µg/kg body weight Symptoms: Reduced body weight Result: positive, Embryo-foetal development Species: Rat Application Route: Subcutaneous Deratogenicity: LOAEL: 0.2 mg/kg body weight Symptoms: Reduced body weight Result: positive, Embryo-foetal development Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: 0.2 mg/kg body weight Result: positive, Embryo-foetal development Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: 0.2 mg/kg body weight Result: Positive, Embryotxic effects and adverse effects on the offspring were detected.Result: positive, Embryo-foetal development Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: 0.2 mg/kg bo	ment		Application Ro	
Species: RatApplication Route: IngestionFertility: LOAEL: 0.5 mg/kg body weightResult: Effects on fertilityTest Type: One-generation reproduction toxicity studySpecies: RatDuration of Single Treatment: 90 dFertility: LOAEL: 0.69 mg/kg body weightResult: Effects on fertilityTest Type: Two-generation studySpecies: MouseApplication Route: OralFertility: LOAEL: 0.1 mg/kg body weightResult: Effects on fortilityEffects on foetal develop-mentSpecies: MouseApplication Route: SubcutaneousTeratogenicity: LOAEL: 4 mg/kg body weightSpecies: RatApplication Route: SubcutaneousTeratogenicity: LOAEL: 4 mg/kg body weightSpecies: RatApplication Route: SubcutaneousTeratogenicity: LOAEL: 2.5 µg/kg body weightSymptoms: Reduced body weightResult: positive, Teratogenic effectsTest Type: Embryo-foetal developmentSpecies: RatApplication Route: SubcutaneousTeratogenicity: LOAEL: 2.5 µg/kg body weightSymptoms: Reduced body weightResult: positive, Embryo-foetal developmentSpecies: RatApplication Route: SubcutaneousTeratogenicity: LOAEL: 0.2 mg/kg body weightSymptoms: Early Resorptions / resorption rate, Reducednumber of viable fetuses, Reduced body weightSymptoms: Early Resorptions / resorption rate, Reducednumber of viable fetuses, Reduced body weightResult: Embryotoxic effects and adverse effects on the off- </td <td>Estradio</td> <td>ol:</td> <td></td> <td></td>	Estradio	ol:		
Species: Rat Duration of Single Treatment: 90 d Fertility: LOAEL: 0.69 mg/kg body weight Result: Effects on fertilityTest Type: Two-generation study Species: Mouse Application Route: Oral Fertility: LOAEL: 0.1 mg/kg body weight Result: Effects on fertilityEffects on foetal develop- ment: 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 effectsTest Type: One-generation reproduction toxicity study Species: Rat Application Route: Subcutaneous Teratogenicity: LOAEL: 2.5 µg/kg body weight Symptoms: Reduced body weight Result: positive, Embryotoxic effects and adverse effects on the offspring were detected.Test Type: Embryo-foetal development Species: Rat Application Route: Subcutaneous Teratogenicity: LOAEL: 2.5 µg/kg body weight Symptoms: Reduced body weight Result: positive, Embryotoxic effects and adverse effects on the offspring were detected.Test Type: Embryo-foetal development Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: 0.2 mg/kg body weight Symptoms: Early Resorptions / resorption rate, Reduced number of viable fetuses, Reduced body weight Result: Embryotoxic effects and adverse effects on the off- spring were detected only at high maternally toxic dosesReproductive toxicity - As- sessment: May damage fertility. May damage the unborn child.	Effects o	on fertility	Species: Rat Application Ro Fertility: LOAE	ute: Ingestion L: 0.5 mg/kg body weight
Species: Mouse Application Route: Oral Fertility: LOAEL: 0.1 mg/kg body weight Result: Effects on foetal develop- mentEffects on foetal develop- ment: Test Type: Embryo-foetal development Species: Mouse, female Application Route: Subcutaneous Teratogenicity: LOAEL: 4 mg/kg body weight Symptoms: Malformations were observed. 			Species: Rat Duration of Sir Fertility: LOAE	ngle Treatment: 90 d L: 0.69 mg/kg body weight
mentSpecies: Mouse, female Application Route: Subcutaneous Teratogenicity: LOAEL: 4 mg/kg body weight Symptoms: Malformations were observed. Result: positive, Teratogenic effectsTest Type: One-generation reproduction toxicity study Species: Rat Application Route: Subcutaneous Teratogenicity: LOAEL: 2.5 µg/kg body weight Symptoms: Reduced body weight Result: positive, Embryotoxic effects and adverse effects on 			Species: Mous Application Ro Fertility: LOAE	e ute: Oral L: 0.1 mg/kg body weight
Species: Rat Application Route: Subcutaneous Teratogenicity: LOAEL: 2.5 µg/kg body weight Symptoms: Reduced body weight Result: positive, Embryotoxic effects and adverse effects on the offspring were detected. Test Type: Embryo-foetal development Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: 0.2 mg/kg body weight Symptoms: Early Resorptions / resorption rate, Reduced number of viable fetuses, Reduced body weight Result: Embryotoxic effects and adverse effects on the off- spring were detected only at high maternally toxic doses Reproductive toxicity - As- sessment : May damage fertility. May damage the unborn child.		on foetal develop-	Species: Mous Application Ro Teratogenicity: Symptoms: Ma	e, female ute: Subcutaneous LOAEL: 4 mg/kg body weight alformations were observed.
Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: 0.2 mg/kg body weight Symptoms: Early Resorptions / resorption rate, Reduced number of viable fetuses, Reduced body weight Result: Embryotoxic effects and adverse effects on the off-spring were detected only at high maternally toxic doses Reproductive toxicity - Assessment :			Species: Rat Application Ro Teratogenicity: Symptoms: Re Result: positive	ute: Subcutaneous LOAEL: 2.5 µg/kg body weight duced body weight e, Embryotoxic effects and adverse effects on
sessment			Species: Rat Application Ro Developmenta Symptoms: Ea number of viab Result: Embryo	ute: Subcutaneous I Toxicity: LOAEL: 0.2 mg/kg body weight rly Resorptions / resorption rate, Reduced ole fetuses, Reduced body weight ptoxic effects and adverse effects on the off-
17-Hydroxy-6-methyl-19-norpregna-4,6-diene-3,20-dione 17-acetate:		•	: May damage for	ertility. May damage the unborn child.
	17-Hydr	oxy-6-methyl-19-no	rpregna-4,6-diene-	3,20-dione 17-acetate:



2	Revision Date: 06.04.2024	SDS Number 17204-00023	
ment		Species: I Applicatio Result: ne	n Route: Oral
		Test Type Species: I Applicatio	: Embryo-foetal development
Repro sessn	oductive toxicity - As- nent		vidence of adverse effects on sexual function and m human epidemiological studies.
Talc: Effect ment	ts on foetal develop-	Species: I	n Route: Ingestion
STOT	- single exposure		
STOT	lassified based on ava	9	
STOT	- repeated exposure es damage to organs (9	
STOT Cause expos	- repeated exposure es damage to organs (9	
STOT Cause expose Comp Estra Targe	F - repeated exposure es damage to organs (sure. ponents:	e (Liver, Bone, Bloo : Liver, Bor	od, Endocrine system) through prolonged or repeated ne, Blood, Endocrine system amage to organs through prolonged or repeated
STOT Cause expose Comp Estra Targe Asses	- repeated exposure es damage to organs (sure. conents: diol: et Organs	e (Liver, Bone, Bloo : Liver, Bor : Causes d	od, Endocrine system) through prolonged or repeated ne, Blood, Endocrine system amage to organs through prolonged or repeated
STOT Cause expose Comp Estra Targe Asses Repe	- repeated exposure es damage to organs (sure. conents: diol: et Organs ssment	e (Liver, Bone, Bloo : Liver, Bor : Causes d	od, Endocrine system) through prolonged or repeated ne, Blood, Endocrine system amage to organs through prolonged or repeated
STOT Cause expose Comp Estra Targe Asses Repe	- repeated exposure es damage to organs (sure. ponents: diol: et Organs ssment ated dose toxicity <u>ponents:</u>	e (Liver, Bone, Bloo : Liver, Bor : Causes d	od, Endocrine system) through prolonged or repeated ne, Blood, Endocrine system amage to organs through prolonged or repeated
STOT Cause expose Comp Estra Targe Asses Repea Comp Cellul Speci NOAE Applic	F - repeated exposure es damage to organs (sure. ponents: diol: et Organs ssment ated dose toxicity ponents: lose: les	e (Liver, Bone, Bloo : Liver, Bor : Causes d	od, Endocrine system) through prolonged or repeated ne, Blood, Endocrine system amage to organs through prolonged or repeated
STOT Cause expose Comp Estra Targe Asses Repea Comp Cellul Speci NOAE Applic	r - repeated exposure es damage to organs (sure. ponents: diol: et Organs ssment ated dose toxicity ponents: lose: les EL cation Route sure time	e (Liver, Bone, Bloo : Liver, Bor : Causes da exposure. : Rat : >= 9,000 : Ingestion	od, Endocrine system) through prolonged or repeated ne, Blood, Endocrine system amage to organs through prolonged or repeated



Version 7.2	Revision Date: 06.04.2024	SDS Number: 17204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014	
17-H	ydroxy-6-methyl-19-r	orpregna-4,6-dien	e-3,20-dione 17-acetate:	
Spec		: Mouse		
NOA		: 20 mg/kg		
	cation Route sure time	: Oral : 52 Weeks		
Схро		. JZ WEEKS		
Spec		: Rat		
NOA		: 20 mg/kg		
	cation Route	: Oral : 52 Weeks		
Expo	sure time	. 52 Weeks		
Titan	ium dioxide:			
Spec	ies	: Rat		
NOA		: 24,000 mg/k	g	
	cation Route	: Ingestion		
Expo	sure time	: 28 Days		
Spec	ies	: Rat		
NOA		: 10 mg/m3		
	cation Route		ust/mist/fume)	
Expo	sure time	: 2 yr		
Aspi	ration toxicity			
Not c	lassified based on ava	ailable information.		
Expe	erience with human e	xposure		
<u>Com</u>	ponents:			
Estra	adiol:			
Inhal	ation	: Symptoms:	tingling, Nose bleeding	
	contact	: Symptoms:	Skin irritation, Redness, pruritis	
Inges	stion		Headache, Gastrointestinal disturbance, Diz	
			ng, Diarrhoea, water retention, liver function	
		cnange, cna ularities	nges in libido, breast tenderness, menstrua	i iireg-
		ulantico		

17-Hydroxy-6-methyl-19-norpregna-4,6-diene-3,20-dione 17-acetate:

Ingestion	:	Symptoms: acne, amenorhea, Headache, Dizziness, Nausea,
		breast tenderness, changes in libido, insomnia, musculoskele-
		tal pain, mood swings, muscle pain, muscle twitching

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Cellulose:

Toxicity to fish

: LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h



Vers 7.2	sion	Revision Date: 06.04.2024	-	S Number: 204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
				Remarks: Based of	on data from similar materials
	Estradi Toxicity		:	LC50 (Oryzias lati Exposure time: 96	pes (Japanese medaka)): 3.9 mg/l 5 h
		v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 2.7 mg/l 3 h
	Toxicity plants	v to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 16 Method: OECD Te	
	aquatic	v to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.2 mg/l d
	ic toxicity) Toxicity to microorganisms		:	EC50: > 100 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
				NOEC: 100 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
	17-Hyd	roxy-6-methyl-19-nor	pre	gna-4,6-diene-3,2	0-dione 17-acetate:
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokird mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 27	
	Toxicity	to daphnia and other	r : NOEC (Daphnia magna (Water flea)): 3.65 mg/l		nagna (Water flea)): 3.65 mg/l



ersion 2	Revision Date: 06.04.2024		9S Number: 204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
aquat ic toxi	ic invertebrates (Chron- icity)		Exposure time: 21 Method: OECD Te Remarks: No toxic	
Toxic	ity 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:				
Toxic	ity to fish	:	LC50 (Brachydan Exposure time: 24	io rerio (zebrafish)): > 100,000 mg/l ⊧ h
Titan	ium dioxide:			
Toxic	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l h
Toxici plants	ity to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): > 10,000 mg/l ? h
Toxic	ity to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD Te	h
Persi	stence and degradabili	ity		
<u>Comp</u>	oonents:			
Cellu Biode	lose: gradability	:	Result: Readily bi	odegradable.
Estra Biode	diol: gradability	:	Result: rapidly de Biodegradation: 8 Exposure time: 24	34 %



ersion .2	Revision Date: 06.04.2024	SDS Number: 17204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
Bioa	ccumulative potential		
<u>Com</u>	ponents:		
Estra	diol:		
	ion coefficient: n- ol/water	: log Pow: 4.0	1
17-Hy	ydroxy-6-methyl-19-n	orpregna-4,6-dien	e-3,20-dione 17-acetate:
Bioac	cumulation	: Species: Zet Bioconcentra	orafish ation factor (BCF): 44
	ion coefficient: n- ol/water	: log Pow: 3.7	
Mobi	lity in soil		
Com	ponents:		
Estra	diol:		
	bution among environ- al compartments	: log Koc: 3.81	
17-Hy	ydroxy-6-methyl-19-n	orpregna-4,6-dien	e-3,20-dione 17-acetate:
	bution among environ- al compartments		5 CD Test Guideline 106
	r adverse effects ata available		
ECTION	13. DISPOSAL CONS	IDERATIONS	
Disp	osal methods		
-	e from residues	: Do not dispo	se of waste into sewer.
		Dispose of ir	accordance with local regulations.
Conta	aminated packaging	dling site for	iners should be taken to an approved waste ha recycling or disposal. ise specified: Dispose of as unused product.

International Regulations

UNRTDG		
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





Version 7.2	Revision Date: 06.04.2024		OS Number: 204-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
Envi	ronmentally hazardous	:	yes	
UN/I	A-DGR D No. er shipping name	:	(Estradiol, 17-H	hazardous substance, solid, n.o.s. ydroxy-6-methyl-19-norpregna-4,6-diene-
Labe Pack aircr Pack ger a	ting group els ting instruction (cargo		3,20-dione 17-a 9 III Miscellaneous 956 956 yes	celale)
UN r	G-Code number er shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,
Labe EmS	king group	: : : : : : : : : : : : : : : : : : : :	9 III 9 F-A, S-F yes	2)
	• •			POL 73/78 and the IBC Code
	applicable for product as onal Regulations	sup	plied.	
ADG UN r	-	:		ALLY HAZARDOUS SUBSTANCE, SOLID,
Labe Hazo	king group		N.O.S. (Estradiol, 17-H 3,20-dione 17-a 9 III 9 2Z yes	ydroxy-6-methyl-19-norpregna-4,6-diene- cetate)

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.



Version	Revision Date:	SDS Number:	Date of last issue: 26.09.2023
7.2	06.04.2024	17204-00023	Date of first issue: 30.09.2014

SECTION 15. REGULATORY INFORMATION

Safety, health and environmer ture	ntal regulations/legislations/legislation	on specific for the substance or mix-	
Therapeutic Goods (Poisons : Standard) Instrument	publication to check for	umber allocated (Please use the original or specific uses, specific conditions or ight apply for this chemical)	
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 produ	ict are reported in the fo	llowing inventories:	
AICS :	not determined		

DSL	:	not determined
IECSC	:	not determined

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.04.2024 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				
ACGIH AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.		
ACGIH / TWA AU OEL / TWA	:	8-hour, time-weighted average 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 con-

SAFETY DATA SHEET



Nomegestrol / Estradiol Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 26.09.2023
7.2	06.04.2024	17204-00023	Date of first issue: 30.09.2014

centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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