

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/26
11.0	2024/04/06	19066-00025	Date of first issue: 2014/10/06

## **1. PRODUCT AND COMPANY IDENTIFICATION**

Chemical product name	:	Desogestrel / Ethinyl Estradiol Formulation						
Supplier's company name, address and phone number								
Company name of supplier	:	Organon & Co.						
Address	:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302						
Telephone	:	+1-551-430-6000						
E-mail address	:	EHSSTEWARD@organon.com						
Emergency telephone number	:	+1-215-631-6999						

### Recommended use of the chemical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

## 2. HAZARDS IDENTIFICATION

### **GHS classification of chemical product**

GHS classification of chemic	al	product
Carcinogenicity	:	Category 1A
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Pituitary gland, Uterus (including cervix), Ovary, Mammary gland, Prostate, Liver, Blood)
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	<ul> <li>H350 May cause cancer.</li> <li>H360FD May damage fertility. May damage the unborn child.</li> <li>H372 Causes damage to organs (Pituitary gland, Uterus (including cervix), Ovary, Mammary gland, Prostate, Liver, Blood) through prolonged or repeated exposure.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>



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Preca	autionary statements	P202 Do not h and understoc P260 Do not b P264 Wash sh P270 Do not e P273 Avoid re	breathe dust. kin thoroughly after handling. eat, drink or smoke when using this product. lease to the environment. otective gloves/ protective clothing/ eye protec-
		Response: P308 + P313 attention. P391 Collect s	IF exposed or concerned: Get medical advice/
		Storage:	
		P405 Store lo	cked up.
		<b>Disposal:</b> P501 Dispose disposal plant	of contents/ container to an approved waste
Othe	r hazards which do not	t result in classific:	ation
Impor	rtant symptoms and out- of the emergency as-	: Dust contact v Contact with c the skin.	vith the eyes can lead to mechanical irritation. lust can cause mechanical irritation or drying of losive dust-air mixture during processing, han-

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :	Mixture
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### Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Starch	9005-25-8	>= 20 - < 30	8-98
Stearic acid	57-11-4	>= 1 - < 10	2-608
Desogestrel	54024-22-5	>= 0.1 - < 0.25	
Ethinylestradiol	57-63-6	>= 0.025 - < 0.1	

dling or other means.

### 4. FIRST AID MEASURES

General 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.



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lf i	nhaled	: If inhaled, rem Get medical a	ove to fresh air. ttention.				
In -	case of skin contact	: In case of con of water. Remove conta Get medical a Wash clothing	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, rins	e well with water.				
lf s	wallowed	: If swallowed, Get medical a					
an	ost important symptoms d effects, both acute and layed	<ul> <li>Rinse mouth thoroughly with water.</li> <li>May cause cancer.</li> <li>May damage fertility. May damage the unborn child.</li> <li>Causes damage to organs through prolonged or repeate exposure.</li> <li>Contact with dust can cause mechanical irritation or dryin the skin.</li> </ul>					
Pro	otection of first-aiders	: First Aid respo and use the re	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	tes to physician		Treat symptomatically and supportively.				
5. FIRE	FIGHTING MEASURES						
Su	itable extinguishing media	: Water spray Alcohol-resist Carbon dioxid Dry chemical					
	suitable extinguishing edia	: None known.					
Sp	ecific hazards during fire- nting	<ul> <li>Avoid generating dust; fine dust dispersed in air in suf concentrations, and in the presence of an ignition sou potential dust explosion hazard.</li> <li>Exposure to combustion products may be a hazard to</li> </ul>					
Ha uct	zardous combustion prod- s	: Carbon oxides Nitrogen oxides (NOx)					
Sp od	ecific extinguishing meth- s	cumstances a Use water spr Remove unda so.	hing measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to do				
	ecial protective equipment firefighters		a. f fire, wear self-contained breathing apparatus. protective equipment.				

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment.



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gency	quipment and emer- / procedures onmental precautions	tectiv : Avoi Prev Reta Loca	ve equipmen d release to ent further le in and dispo	ling advice (see section 7) and personal pro- t recommendations (see section 8). the environment. eakage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ned.
	Methods and materials for containment and cleaning up		r for disposa d dispersal of compressed deposits sh is these may ed into the a il or national of this mate loyed in the which regul ions 13 and	f 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 Avoidance of contact Hygiene measures	:	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 environment. Oxidizing agents If exposure to chemical is likely during typical use, provide eye



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			flushing systems place.	and safety showers close to the working
		When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.		
Storaç	je			
Condit	ions for safe storage	:	Store locked up. Keep tightly close	abelled containers. d. ce with the particular national regulations.
Materi	als to avoid	:		the following product types:
Packa	ging material	:	Unsuitable materi	al: None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Reference concentration / Permissible con- centration	Basis
Starch	9005-25-8	TWA	10 mg/m3	ACGIH
Stearic acid	57-11-4	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
Desogestrel	54024-22-5	TŴA	0.04 µg/m3 (OEB 5)	Internal
		Wipe limit	0.4 µg/100 cm <sup>2</sup>	Internal
Ethinylestradiol	57-63-6	TWA	0.01 µg/m3 (OEB 5)	Internal
		Wipe limit	0.1 µg/100 cm <sup>2</sup>	Internal

## **Engineering measures**

: Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. No open handling permitted.



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		are required Operations	osed processes and materials transport systems require the use of appropriate containment tech- gned to prevent leakage of compounds into the		
Perso	onal protective equip	ment			
Respiratory protection		sure assess	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.		
	protection	. Tarticulatoo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Ma	aterial	: Chemical-re	sistant gloves		
	emarks protection	: Wear safety If the work e mists or aero Wear a face	uble gloving. glasses with side shields or goggles. nvironment or activity involves dusty conditions, osols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or		
Skin a	and body protection	: Work uniforr Additional be task being p posable suit	n or laboratory coat. ody garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis- s) to avoid exposed skin surfaces. riate degowning techniques to remove potentially d clothing.		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	powder			
Colour	:	White to light yellow			
Odour	:	No data available			
Odour Threshold	:	No data available			
Melting point/freezing point	:	No data available			
Boiling point, initial boiling point and boiling range	:	No data available			
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.			
Flammability (liquids)	:	No data available			
Lower explosion limit and upper explosion limit / flammability limit Upper explosion limit / Up- : No data available					

per flammability limit



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	Lower explosion limit / Lower flammability limit	:	No data available	
Fla	ash point	:	Not applicable	
De	composition temperature	:	No data available	)
рH	I	:	No data available	)
Ev	aporation rate	:	Not applicable	
Au	to-ignition temperature	:	No data available	)
Vis	scosity Viscosity, kinematic	:	Not applicable	
So	lubility(ies) Water solubility	:	No data available	9
	rtition coefficient: n- tanol/water	:	Not applicable	
Va	pour pressure	:	Not applicable	
De	ensity and / or relative densit Relative density	ty :	No data available	
	Density	:	1 g/cm <sup>3</sup>	
Re	lative vapour density	:	Not applicable	
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance or	mixture is not classified as oxidizing.
Pa	rticle characteristics Particle size	:	No data available	

## **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	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents



ersion I.0	Revision Date: 2024/04/06		S Number: 066-00025	Date of last issue: 2023/09/26 Date of first issue: 2014/10/06		
Hazaı produ	rdous decomposition cts	:	No hazardou	s decomposition products are known.		
I. TOXIC	OLOGICAL INFORMAT	101	N			
Information on likely routes of exposure		:	Inhalation Skin contact Ingestion Eye contact			
	e toxicity assified based on availa	ble	information.			
Com	oonents:					
Starc	h:					
Acute	oral toxicity	:	LD50 (Rat): >	5,000 mg/kg		
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg			
Stear	ic acid:					
Acute	oral toxicity	:	LD50 (Rat): > Method: OEC	5,000 mg/kg D Test Guideline 401		
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosphe Remarks: Bas	e: 1 h		
Acute	dermal toxicity	:		: > 2,000 mg/kg The substance or mixture has no acute dermal		
Deso	gestrel:					
Acute	oral toxicity	:	LD50 (Rat, ma	ale and female): > 2,000 mg/kg		
			LD50 (Mouse,	, male and female): > 2,000 mg/kg		
Ethin	ylestradiol:					
Acute	oral toxicity	:	LD50 (Rat): 1,	,200 mg/kg		
			LD50 (Mouse)	): 1,737 mg/kg		
Acute	inhalation toxicity	:	Remarks: No	data available		
Acute	e dermal toxicity	:	Remarks: No	data available		

### Skin corrosion/irritation

Not classified based on available information.



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<u>Com</u>	ponents:		
Stear	ic acid:		
Speci Metho		: Rabbit : Patch Test 24 I	
Resul		: No skin irritatio	
	ylestradiol:		
Rema	arks	: No data availat	ble
Serio	us eye damage/eye	irritation	
Not c	lassified based on av	ailable information.	
<u>Com</u>	ponents:		
Starc			
Speci Resu		: Rabbit : No eye irritatior	1
1 COU	it.	. No eye imation	
Stear	ic acid:		
Speci Resu		: Rabbit : No eye irritatior	
Itesu	it.	. No eye imatioi	1
	ylestradiol:		
Rema	arks	: No data availat	ble
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
Not c	lassified based on ava	ailable information.	
	iratory sensitisation		
	lassified based on ava	ailable information.	
Com	ponents:		
Starc			
Test Expos	I ype sure routes	: Maximisation T : Skin contact	est
Speci	ies	: Guinea pig	
Resu	It	: negative	
Stear	ic acid:		
Test		: Maximisation T	est
Expos Speci	sure routes ies	: Skin contact : Guinea pig	
Resu	lt	: negative	
Rema	arks	: Based on data	from similar materials



Ethinylestradiol:       Remarks       : No data available         Gern cell mutagenicity       Not classified based on available information.         Components:       Starch:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Stearic acid:       Genotoxicity in vitro         Genotoxicity in vitro       : Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative         Remarks: Based on data from similar materials       Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative         Remarks: Based on data from similar materials       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Remarks: Based on data from similar materials       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Cenotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vitro       : Test Type: Micronucleus test Species: Rat Application Route: Intraperitoneal Result: negative         Ethinylestradiol:       Cenotoxicity in vitro         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Eschericial reverse mutation assay (AMES) Test system: Eschericial reverse mutation assay (AMES) Test system: Regative         Genotoxicity in vitro       : Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: negative </th <th>/ersion I1.0</th> <th>Revision Date: 2024/04/06</th> <th>SDS Number: 19066-00025</th> <th>Date of last issue: 2023/09/26 Date of first issue: 2014/10/06</th>	/ersion I1.0	Revision Date: 2024/04/06	SDS Number: 19066-00025	Date of last issue: 2023/09/26 Date of first issue: 2014/10/06
Remarks       : No data available         Germ cell mutagenicity         Not classified based on available information.         Components:         Starch:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Stearic acid:         Genotoxicity in vitro       : Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials         Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials         Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials         Desogestrel:       :         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Result: negative         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Ethinylestradiol:       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Result: negative         Ethinylestradiol:       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negative         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negat				
Not classified based on available information.         Components:         Starch:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Stearic acid:         Genotoxicity in vitro       : Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials         Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials         Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials         Desogestrel:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vitro       : Test Type: Micronucleus test Species: Rat Application Route: Intraperitoneal Result: negative         Ethinylestradiol:       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negative         Image: Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negative         Test Type: Chromosome aberration test in vitro Test system: Escherichia coli Result: negative         Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: equivocal		•	: No data ava	ilable
Starch:       Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Stearic acid:       Senotoxicity in vitro       : Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials         Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials         Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials         Desogestrel:       Genotoxicity in vitro         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vitro       : Test Type: Micronucleus test Species: Rat Application Route: Intraperitoneal Result: negative         Ethinylestradiol:       : Test Type: Bacterial reverse mutation assay (AMES) rest system: Escherichia coli Result: negative         Ethinylestradiol:       : Test Type: Bacterial reverse mutation assay (AMES) rest system: Escherichia coli Result: negative         Cenotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) rest system: Escherichia coli Result: negative         Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: equivocal			ailable information.	
Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Stearic acid:       :         Genotoxicity in vitro       : Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials         Test Type: In vitro marmalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials         Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials         Desogestrel:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials         Desogestrel:       :         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vitro       : Test Type: Micronucleus test Species: Rat Application Route: Intraperitoneal Result: negative         Ethinylestradiol:       :         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Result: negative         Test Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negative         Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: equivocal	<u>Com</u>	oonents:		
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Result: negative         Remarks: Based on data from similar materials         Desogestrel:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vivo       : Test Type: Micronucleus test Species: Rat Application Route: Intraperitoneal Result: negative         Ethinylestradiol:       :         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Result: negative         Test Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negative         Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: equivocal			Remarks: Ba	ased on data from similar materials
Desogestrel:       Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vivo       : Test Type: Micronucleus test Species: Rat Application Route: Intraperitoneal Result: negative         Ethinylestradiol:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Result: negative         Test Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negative         Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: equivocal			Result: nega	ative
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Species: Rat Application Route: Intraperitoneal Result: negative         Ethinylestradiol:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Result: negative         Test Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negative         Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: equivocal	Geno	toxicity in vitro		
Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Result: negative         Test Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negative         Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: equivocal	Geno	toxicity in vivo	Species: Ra Application F	t Route: Intraperitoneal
Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Result: negative         Test Type: Bacterial reverse mutation assay (AMES) Test system: Escherichia coli Result: negative         Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: equivocal	II Ethin	vlestradiol		
Test system: Escherichia coli Result: negative Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: equivocal		-	Test system	: Salmonella typhimurium
Test system: Human lymphocytes Result: equivocal			Test system	: Escherichia coli
Genotoxicity in vivo : Test Type: Chromosomal aberration			Test system	: Human lymphocytes
	Geno	toxicity in vivo	: Test Type: C	Chromosomal aberration



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		Species: Mou	
		Cell type: Bo Application R	
		Result: positi	
		Test Type: M	icronucleus test
		Species: Mou	
		Cell type: Bo	
		Application R Result: negat	
		Result. negal	ive
	n cell mutagenicity - ssment	: Weight of evi cell mutagen.	dence does not support classification as a germ
II Carc	inogenicity		
	cause cancer.		
-			
<u>Com</u>	ponents:		
Desc	gestrel:		
Spec	-	: Rat	
	cation Route	: Oral	
	sure time	: 104 weeks	
Resu	lt	: negative	
Spec	ies	: Mouse	
	cation Route	: Oral	
	sure time	: 81 weeks	
Resu	lt	: negative	
Ethir	ylestradiol:		
Spec	ies	: Rat, male and	d female
Appli	cation Route sure time	: Oral	
		: 2 Years	
Resu	lt	: negative	
Spec	ies	: Monkey, fem	ale
		: Oral	
Expo	cation Route sure time	: 10 Years	
Resu		: negative	
Carci ment	nogenicity - Assess-	: Positive evide	ence from human epidemiological studies
Repr	oductive toxicity		
-	damage fertility. May d	amage the unborn o	hild.
	ponents:		
	ric acid:	. T C	
TIPC	ts on fertility	: rest rype: C	ombined repeated dose toxicity study with the



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		Appli Meth Resu	lt: negative	: Ingestion est Guideline 422 on data from similar materials
Effec ment	ts on foetal develop-	repro Spec Appli Meth Resu	duction/deve ies: Rat cation Route od: OECD Te lt: negative	ned repeated dose toxicity study with the lopmental toxicity screening test Ingestion est Guideline 422 on data from similar materials
Deso	gestrel:			
	ts on fertility	Spec Fertil	ies: Rabbit, f	arent: 2 mg/kg body weight
		Spec Fertil	ies: Rat, fem	arent: 0.5 mg/kg body weight
Effec ment	ts on foetal develop-	Spec Appli Deve Resu	ies: Rabbit, f cation Route lopmental To lt: Embryoto	
		Spec Appli Embi weigl	ies: Rat, fem cation Route yo-foetal tox	Oral city: LOAEC Parent: 0.125 mg/kg body
Repro sessr	oductive toxicity - As- ment	ity, b	ased on anim	adverse effects on sexual function and fertil- al experiments., Some evidence of adverse ment, based on animal experiments.
Ethin	ylestradiol:			
	ts on fertility	Fertil	ies: Hamster ity: LOAEL: 6 lt: Effects on	5.3 mg/kg body weight fertility
Effec ment	ts on foetal develop-	Spec	Type: Four-g ies: Rat cation Route	eneration reproduction toxicity study



Version 11.0	Revision Date: 2024/04/06		0S Number: 066-00025	Date of last issue: 2023/09/26 Date of first issue: 2014/10/06
			Result: Specifi	l Toxicity: LOAEL: > 0.006 mg/kg body weight c developmental abnormalities
			Species: Rat, r Application Ro Developmenta	o-generation reproduction toxicity study male and female ute: Oral I Toxicity: LOAEL: 0.005 mg/kg body weight c developmental abnormalities
Repr sessi	oductive toxicity - As- ment	:	ity, based on a	e of adverse effects on sexual function and fertil- nimal experiments., Clear evidence of adverse elopment, based on animal experiments.
	<b>F - single exposure</b> classified based on avai	ilable	information.	
STO	T - repeated exposure	•		
	es damage to organs ( ate, Liver, Blood) throu			s (including cervix), Ovary, Mammary gland, ated exposure.
<u>Com</u>	ponents:			
Desc	ogestrel:			
Targe	et Organs	:	Pituitary gland gland, Prostate	, Uterus (including cervix), Ovary, Mammary
Asse	ssment	:	-	ge to organs through prolonged or repeated
Ethir	ylestradiol:			
Targe	et Organs	:	Liver, Blood	
Asse	ssment	:	Causes damages damag	ge to organs through prolonged or repeated
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
Stard	ch:			
Spec NOA		:	Rat >= 2,000 mg/k	a
Appli	cation Route	:	Skin contact	9
Expo Meth	sure time od	:	28 Days OECD Test Gu	uideline 410
Stea	ric acid:			
Spec		:	Rat	
NOA Appli	EL cation Route	:	1,000 mg/kg Ingestion	
Expo	sure time	:	42 Days	
Meth	od	:	OECD Test Gu	udeline 422



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Rema	arks	: Based on data	from similar materials
	ogestrel:	· Pat fomala	
Spec LOAE		: Rat, female : 0.00625 mg/kg	l
	cation Route	: Oral	
	sure time et Organs	: 26 Weeks	, Uterus (including cervix), Ovary, Mammary
Tarye	et Organs	gland	, oterus (including cervix), ovary, marimary
Spec LOAE		: Rat : 0.005 mg/kg	
	_∟ cation Route	: Oral	
Expo	sure time	: 52 Weeks	
Targe	et Organs	: Pituitary gland gland	, Uterus (including cervix), Ovary, Mammary
Spec		: Dog	
LOAE Appli	=∟ cation Route	: 0.005 mg/kg : Oral	
Expo	sure time	: 52 Weeks	
Targe	et Organs	: Pituitary gland gland, Prostate	, Uterus (including cervix), Ovary, Mammary
Ethin	vlestradiol:		
Spec		: Rat	
NOA LOAE		: 0.25 mg/kg : 0.5 mg/kg	
	_∟ cation Route	: Oral	
Expo	sure time	: 2 Weeks	
	et Organs	: Liver	
Spec LOAE		: Rabbit	
	cation Route	: 0.015 mg/kg : Oral	
Expo	sure time	: 20 Weeks	
	et Organs	: Liver	
Spec		: Dog	
NOA LOAE		: 0.04 mg/kg : 0.2 mg/kg	
Appli	cation Route	: Oral	
	sure time	: 95 d	
	et Organs	: Blood	<i>.</i> .
Spec NOA		: Rat, male and : 0.0015 mg/kg	temale
LOAE		: 0.0015 mg/kg	
Appli	cation Route	: Oral	
	sure time et Organs	: 2 yr : Reproductive (	organs, Mammary gland, Liver, Uterus (includ-
Inarge	JUIJallo		ngano, manimary gianu, Livel, Oterus (Includ-

Toxicity to algae/aquatic

plants



# Desogestrel / Ethinyl Estradiol Formulation

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II			ing cervix)				
Not	iration toxicity classified based on ava						
-	erience with human ex nponents:	cposu	re				
	ogestrel:						
	stion	:	Vomiting, Dia trointestinal d	leadache, changes in libido, Dizziness, Nausea, irrhoea, water retention, sodium retention, Gas- liscomfort, mental depression, amenorhea, in- ired glucose tolerance, pulmonary embolism			
			Target Organ	s: Uterus (including cervix)			
			Target Organs: Mammary gland				
II Ethi	nylestradiol:						
	stion	:	Headache, D	bdominal pain, Nausea, Vomiting, Diarrhoea, izziness, mood swings, Oedema, liver function r retention, hair loss, gynecomastia, effects on			
12. ECO	LOGICAL INFORMATIO	NC					
Eco	toxicity						
<u>Con</u>	nponents:						
Stea	aric acid:						
Toxi	city to fish	:	LL50 (Leucise Exposure tim Method: DIN				
	city to daphnia and othe atic invertebrates	er :	Exposure tim Method: OEC Remarks: Ba	ia magna (Water flea)): > 10 mg/l e: 48 h D Test Guideline 202 sed on data from similar materials the limit of solubility			

Exposure time: 72 h

Method: OECD Test Guideline 201

No toxicity at the limit of solubility

Remarks: Based on data from similar materials

:

mg/l

NOELR (Pseudokirchneriella subcapitata (green algae)): > 10

EL50 (Pseudokirchneriella subcapitata (green algae)): > 1



ersion 1.0	Revision Date: 2024/04/06		9S Number: 066-00025	Date of last issue: 2023/09/26 Date of first issue: 2014/10/06
			mg/l Exposure time: 72 Method: OECD Te Remarks: Based o No toxicity at the l	est Guideline 201 on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 21 Method: OECD Te	est Guideline 211 on data from similar materials
Toxici	ty to microorganisms	:	EC10 (Pseudomo Exposure time: 18	nas putida): 883 mg/l 3 h
Deso	gestrel:			
	ty to fish	:	Exposure time: 96 Method: FDA 4.11	
			Exposure time: 96 Method: OECD Te Remarks: No toxic	
	ty to daphnia and other c invertebrates	:	Exposure time: 48 Method: OECD Te Remarks: No toxic	
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 32 Method: OECD Te	
			Exposure time: 18	tipes (Japanese medaka)): 0.0000027 mg/l 3 d on data from similar materials
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 21	nagna (Water flea)): 1.2 mg/l d on data from similar materials
	ctor (Chronic aquatic	:	10,000	
toxicit <u>;</u> Toxici	y) ty to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition



rsion 0	Revision Date: 2024/04/06		9S Number: 066-00025	Date of last issue: 2023/09/26 Date of first issue: 2014/10/06
			Remarks: Bas	ed on data from similar materials
Ethin	ylestradiol:			
	ty to fish	:	Exposure time	s macrochirus (Bluegill sunfish)): 1.6 mg/l : 96 h D Test Guideline 203
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time	okirchneriella subcapitata (green algae)): > : 72 h D Test Guideline 201
			mg/I Exposure time	okirchneriella subcapitata (green algae)): 6 : 72 h D Test Guideline 201
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time	hales promelas (fathead minnow)): 0.01 μg : 35 d D Test Guideline 210
			NOEC (Zebraf Exposure time	ish): 0.00031 μg/l : 339 d
	c invertebrates (Chron-	:	Exposure time	ia magna (Water flea)): 0.75 mg/l : 21 d D Test Guideline 211
M-Fac toxicit	etor (Chronic aquatic	:	100,000	
	ty to microorganisms	:		
II Persis	stence and degradabili	ity		
<u>Comp</u>	onents:			

Stearic acid: Biodegradability

: Result: Readily biodegradable.



ersion 1.0	Revision Date: 2024/04/06	-	OS Number: 066-00025	Date of last issue: 2023/09/26 Date of first issue: 2014/10/06
			Biodegradation: Exposure time: 2 Method: OECD 1	
Deso	gestrel:			
	ity in water	:	Hydrolysis: < 10 Remarks: Based	%(5 d) I on data from similar materials
Bioad	cumulative potential			
Comp	oonents:			
Stear	ic acid:			
	on coefficient: n- ol/water	:	log Pow: 8.23	
Deso	gestrel:			
Bioac	cumulation	:	Bioconcentration	is macrochirus (Bluegill sunfish) h factor (BCF): 128 I on data from similar materials
	on coefficient: n- ol/water	:	log Pow: 3.5	
Ethin	ylestradiol:			
Bioac	cumulation	:	Bioconcentration	is macrochirus (Bluegill sunfish) n factor (BCF): 264 Test Guideline 305
	on coefficient: n- ol/water	:	log Pow: 4.15	
Mobil	ity in soil			
<u>Comp</u>	oonents:			
Deso	gestrel:			
	bution among environ- al compartments	:	log Koc: 2.84	
Ethin	ylestradiol:			
	oution among environ- al compartments	:	log Koc: 3.86	
	rdous to the ozone lay	er		
	<b>adverse effects</b> Ita available			



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### **13. DISPOSAL CONSIDERATIONS**

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

## International Regulations

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

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **National Regulations**

Refer to section 15 for specific national regulation.



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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.

**ERG Code** : 171

### **15. REGULATORY INFORMATION**

### **Related Regulations**

#### **Fire Service Law**

Not applicable to dangerous materials / designated flammables.

#### Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

#### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### Substances Prevented From Impairment of Health

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

### Substances Subject to be Notified Names

Not applicable

### Substances Subject to be Indicated Names

Not applicable

### Substances Subject to be Indicated Names

Not applicable

#### Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable

## Ordinance on Prevention of Hazards Due to Specified Chemical Substances Not applicable



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Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning Not applicable

## Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

### Poisonous and Deleterious Substances Control Law

Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

### **High Pressure Gas Safety Act**

Not applicable

#### Explosive Control Law

Not applicable

#### Vessel Safety Law

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

#### **Aviation Law**

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

### Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation	:	Not classified as noxious liquid substance
---------------------	---	--------------------------------------------

Pack transportation : Classified as marine pollutant

### Narcotics and Psychotropics Control Act

Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable

### Waste Disposal and Public Cleansing Law

Industrial waste

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

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



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### **16. OTHER INFORMATION**

### Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	yyyy/mm/dd		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
ACGIH / TWA	:	8-hour, time-weighted average		

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and 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





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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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