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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	Etonogestrel Formulation (Nexplanon)

Product code : NEXPLANON

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	: Pharmaceutical
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

Company	:	Organon & Co. 30 Hudson Street, 33nd floor 07302 Jersey City, New Jersey, U.S.A
Telephone	:	551-430-6000
E-mail address of person responsible for the SDS	:	EHSSTEWARD@organon.com

1.4 Emergency telephone number

215-631-6999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 1A Long-term (chronic) aquatic hazard, Category 1 H360F: May damage fertility. H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H360F May damage fertility.H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:
		P201 Obtain special instructions before use.P273 Avoid release to the environment.

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		P280 Wear p tion/ face protec	rotective gloves/ protective clothing/ eye protec-

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.P391 Collect spillage.

Storage:

P405 Store locked up.

Hazardous components which must be listed on the label:

(17a)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4-en-20-yn-3-one

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
(17α)-13-Ethyl-17-hydroxy-11- methylene-18,19-dinorpregn-4-en- 20-yn-3-one	54048-10-1 258-936-2	Repr. 1A; H360F Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 10.000	>= 30 - < 50
Substances with a workplace exposur	e limit :		
Barium sulfate	7727-43-7 231-784-4		>= 10 - < 20

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of 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.		
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).		
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.		
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.		
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.		
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.		
4.2 Most important symptoms	and e	effects, both acute and delayed		
Risks	:	May damage fertility.		
		Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.		
4.3 Indication of any immediate	e me	dical attention and special treatment needed		
Treatment	:	Treat symptomatically and supportively.		
SECTION 5: Eirefighting me	26111	202		

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing	:	None known.

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me	dia			
5.2 Spe	cial hazards arising from	n the	e substance or mi	xture
	ecific hazards during fire- nting	:	Exposure to com	bustion products may be a hazard to health.
Ha uct	zardous combustion prod- s	• :	: Metal oxides Sulphur oxides Carbon oxides	
5.3 Adv	ice for firefighters			
	ecial protective equipment firefighters	t:		e, wear self-contained breathing apparatus. tective equipment.
Spo	ecific extinguishing meth-	:	 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to d so. Evacuate area. 	

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		

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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

in i i ooddallonio ion odro nandinig	,	
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 breathe vapours. Do not swallow. Avoid contact with eyes. 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. Take care to prevent spills, waste and minimize release to the environment.
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 contami- nated 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.
7.2 Conditions for safe storage, in	ncl	uding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types:

Strong oxidizing agents Organic peroxides

Explosives Gases

7.3 Specific end use(s)

Specific use(s) : N	lo data available
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(17α)-13-Ethyl-17- hydroxy-11- methylene-18,19- dinorpregn-4-en- 20-yn-3-one	54048-10-1	TWA	0.05 μg/m3 (OEB 5)	Internal
		Wipe limit	0.5 μg/100 cm ²	Internal
Barium sulfate	7727-43-7	TWA	0,5 mg/m3 (Barium)	2006/15/EC
	Further information: Indicative			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Barium sulfate	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	10 mg/m3
	Consumers	Ingestion	Long-term systemic effects	13000 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Barium sulfate	Fresh water	0,115 mg/l
	Sewage treatment plant	62,2 mg/l
	Fresh water sediment	600,4 mg/kg dry
		weight (d.w.)
	Soil	207,7 mg/kg dry
		weight (d.w.)

8.2 Exposure controls

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.

Totally enclosed processes and materials transport systems are required.

Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.

Personal protective equipment

Eye protection

: Wear safety glasses with side shields or goggles.

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		mists or aer Wear a face	environment or activity involves dusty conditions, osols, wear the appropriate goggles. eshield or other full face protection if there is a direct contact to the face with dusts, mists, or			
Hand	d protection					
М	Material		Chemical-resistant gloves			
Remarks Skin and body protection		: Work uniforr Additional bo being perfor	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.			
Resp	Respiratory protection		iate degowning techniques to remove potentially d clothing. ocal exhaust ventilation is not available or expo- ment demonstrates exposures outside the rec- guidelines, use respiratory protection. should conform to NS EN 143			
Fi	Filter type		: Particulates type (P)			

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Colour Odour Odour Threshold	:	Solid form No data available No data available No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling 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
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature Decomposition tempera- ture pH	:	No data available No data available
Pi i	•	

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		osity, dynamic	:	No data available	
	Solubili	osity, kinematic ty(ies) er solubility	:	No data available No data available	
	octanol Vapour	pressure	:	No data available No data available	9
	Density	e density , e vapour density	:	No data available 1 g/cm ³ No data available	
	Particle	characteristics icle size	:	No data available	
)ther in Explosi	formation ves	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ation rate	:	No data available	9
	Molecu	lar weight	:	No data available	9

SECTION 10: Stability and reactivity

	1	0.1	Reactivity	
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Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reaction	ons
Hazardous reactions :	May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid :	Heat, flames and sparks. Avoid dust formation.
10.5 Incompatible materials	
Materials to avoid :	Oxidizing agents

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10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

nformation on likely routes of	: Inhalation
xposure	Skin contact
	Ingestion
	Eye contact
Acute toxicity	
Not classified based on availab	le information.
Components:	
(17α)-13-Ethvl-17-hvdroxy-11	-methylene-18,19-dinorpregn-4-en-20-yn-3-one:
	: LD50 (Rat): > 2.000 mg/kg
, , , , , , , , , , , , , , , , , , ,	
	LD50 (Mouse): > 2.000 mg/kg
Barium sulfate:	
	: LD50 (Rat): > 5.000 mg/kg
TOULD OF ALL LONIOLY	. Loss (Nay. > 3.000 mg/kg
Skin corrosion/irritation	
Not classified based on availab	le information.
Components:	
$1/\alpha_{-1}$ $-1/\alpha_{-1}$	-motov(obo-1x)(u-a)borbroab-1-ob-20-v(b-2-obo)
	-methylene-18,19-dinorpregn-4-en-20-yn-3-one:
Species	: Mouse
Species	
Species Result	MouseNo skin irritationGuinea pig
Species Result Species	: Mouse : No skin irritation
Species Result Species Result	MouseNo skin irritationGuinea pig
Species Result Species Result Barium sulfate:	 Mouse No skin irritation Guinea pig No skin irritation
Species Result Species Result Barium sulfate: Species	MouseNo skin irritationGuinea pig
Species Result Species Result Barium sulfate: Species Method	 Mouse No skin irritation Guinea pig No skin irritation reconstructed human epidermis (RhE)
Species Result Species Result Barium sulfate: Species Method Remarks	 Mouse No skin irritation Guinea pig No skin irritation reconstructed human epidermis (RhE) OECD Test Guideline 439 Based on data from similar materials
Species Result Species Result Barium sulfate: Species Method Remarks	 Mouse No skin irritation Guinea pig No skin irritation reconstructed human epidermis (RhE) OECD Test Guideline 439
Species Result Species Result Barium sulfate: Species Method Remarks Result	 Mouse No skin irritation Guinea pig No skin irritation reconstructed human epidermis (RhE) OECD Test Guideline 439 Based on data from similar materials No skin irritation
Species Result Species Result Barium sulfate: Species Method Remarks Result Serious eye damage/eye irrita	 Mouse No skin irritation Guinea pig No skin irritation reconstructed human epidermis (RhE) OECD Test Guideline 439 Based on data from similar materials No skin irritation
Species Result Species Result Barium sulfate: Species Method Remarks Result Serious eye damage/eye irrita Not classified based on availab	 Mouse No skin irritation Guinea pig No skin irritation reconstructed human epidermis (RhE) OECD Test Guideline 439 Based on data from similar materials No skin irritation
Species Result Species Result Barium sulfate: Species Method Remarks Result Serious eye damage/eye irrita Not classified based on availab Components:	 Mouse No skin irritation Guinea pig No skin irritation reconstructed human epidermis (RhE) OECD Test Guideline 439 Based on data from similar materials No skin irritation
Species Result Species Result Barium sulfate: Species Method Remarks Result Serious eye damage/eye irrita Not classified based on availab <u>Components:</u> Barium sulfate:	 Mouse No skin irritation Guinea pig No skin irritation reconstructed human epidermis (RhE) OECD Test Guideline 439 Based on data from similar materials No skin irritation
Species Result Species Result Barium sulfate: Species Method Remarks Result Serious eye damage/eye irrita Not classified based on availab Components:	 Mouse No skin irritation Guinea pig No skin irritation reconstructed human epidermis (RhE) OECD Test Guideline 439 Based on data from similar materials No skin irritation

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Barium sulfate:

Test Type :	Local lymph node assay (LLNA)
Exposure routes :	Skin contact
Species :	Mouse
Method :	OECD Test Guideline 429
Result :	negative
Remarks :	Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

$(17\alpha)-13-Ethyl-17-hydroxy-11-methylene-18, 19-dinorpregn-4-en-20-yn-3-one:$

:	Test Type: reverse mutation assay Test system: Salmonella typhimurium Result: negative
	Test Type: in vitro assay Test system: Chinese hamster ovary cells Result: negative
:	Test Type: In vivo micronucleus test Species: Mouse Application Route: Oral Result: negative
:	Weight of evidence does not support classification as a germ cell mutagen.
:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
	Test Type: Chromosome aberration test in vitro 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
	:

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		Remarks: Bas	ed on data from similar materials
Carci	nogenicity		
Not cl	assified based on ava	ilable information.	
Comp	oonents:		
(17α)-	-13-Ethvl-17-hvdroxv	-11-methvlene-18.19	9-dinorpregn-4-en-20-yn-3-one:
Speci		: Rat	
	ation Route	: Oral	
	ty duration	: 2 yr	
/ 1011/1	gualation	: 0,5 mg/kg bod	v weight
Resul	t	: negative	, noight
Speci	es	: Rat	
	ation Route	: Subcutaneous	
	ty duration	: 2 yr	
	<i>, , , , , , , , , ,</i>	: 0,02 mg/kg bo	dv weight
Resul	t	: negative	
Carcir	nogenicity - Assess-	: Weight of evid	ence does not support classification as a car-
ment	legenneny ricecce	cinogen	
Bariu	m sulfate:		
Speci	es	: Rat	
•	ation Route	: Ingestion	
	sure time	: 2 Years	
Resul		: negative	
Rema	irks		from similar materials
	ductivo tovicity		
Repro	oductive toxicity		
-	lamage fertility.		
May d	-		
May d <u>Comp</u> (17α)-	lamage fertility. ponents: -13-Ethyl-17-hydroxy	•)-dinorpregn-4-en-20-yn-3-one:
May d <u>Comp</u> (17α)-	lamage fertility.	: Test Type: Fe	tility
May d <u>Comp</u> (17α)-	lamage fertility. ponents: -13-Ethyl-17-hydroxy	: Test Type: Fer Species: Rat,	tility female
May d <u>Comp</u> (17α)-	lamage fertility. ponents: -13-Ethyl-17-hydroxy	: Test Type: Fei Species: Rat, Application Ro	tility female ute: Oral
May d <u>Comp</u> (17α)-	lamage fertility. ponents: -13-Ethyl-17-hydroxy	: Test Type: Fe Species: Rat, Application Ro Fertility: LOAE	tility female ute: Oral L: 0,012 mg/kg body weight
May d <u>Comp</u> (17α)-	lamage fertility. ponents: -13-Ethyl-17-hydroxy	: Test Type: Fei Species: Rat, Application Ro	tility female ute: Oral L: 0,012 mg/kg body weight
May d <u>Comp</u> (17α)-	lamage fertility. ponents: -13-Ethyl-17-hydroxy	: Test Type: Fei Species: Rat, Application Ro Fertility: LOAE Result: Effects Test Type: Fei	tility iemale ute: Oral L: 0,012 mg/kg body weight on fertility tility
May d <u>Comp</u> (17α)-	lamage fertility. ponents: -13-Ethyl-17-hydroxy	: Test Type: Fer Species: Rat, Application Ro Fertility: LOAE Result: Effects Test Type: Fer Species: Rabb	tility female ute: Oral L: 0,012 mg/kg body weight on fertility tility it, female
May d <u>Comp</u> (17α)-	lamage fertility. ponents: -13-Ethyl-17-hydroxy	: Test Type: Fer Species: Rat, Application Ro Fertility: LOAE Result: Effects Test Type: Fer Species: Rabb Application Ro	tility female ute: Oral L: 0,012 mg/kg body weight on fertility tility it, female ute: Oral
May d <u>Comp</u> (17α)-	lamage fertility. ponents: -13-Ethyl-17-hydroxy	: Test Type: Fer Species: Rat, Application Ro Fertility: LOAE Result: Effects Test Type: Fer Species: Rabb Application Ro	tility female ute: Oral L: 0,012 mg/kg body weight on fertility tility it, female ute: Oral ligram per kilogram
May d <u>Comp</u> (17α)- Effect	lamage fertility. <u>ponents:</u> 13-Ethyl-17-hydroxy s on fertility	: Test Type: Fer Species: Rat, Application Ro Fertility: LOAE Result: Effects Test Type: Fer Species: Rabb Application Ro Dose: 0.05 mil Result: Effects	tility female ute: Oral L: 0,012 mg/kg body weight on fertility tility it, female ute: Oral ligram per kilogram on fertility
May d <u>Comp</u> (17α)- Effect	lamage fertility. ponents: -13-Ethyl-17-hydroxy	 Test Type: Fer Species: Rat, Application Ro Fertility: LOAE Result: Effects Test Type: Fer Species: Rabb Application Ro Dose: 0.05 mil Result: Effects Species: Rat, 	tility female ute: Oral L: 0,012 mg/kg body weight on fertility tility it, female ute: Oral ligram per kilogram on fertility
May d <u>Comp</u> (17α)- Effect	lamage fertility. <u>ponents:</u> 13-Ethyl-17-hydroxy s on fertility	 Test Type: Fer Species: Rat, Application Ro Fertility: LOAE Result: Effects Test Type: Fer Species: Rabb Application Ro Dose: 0.05 mil Result: Effects Species: Rat, Duration of Sir 	tility female ute: Oral L: 0,012 mg/kg body weight on fertility tility it, female ute: Oral ligram per kilogram on fertility

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	Reproductive toxicity - As- sessment		:		of adverse effects on sexual function and n epidemiological studies.
	Barium sulfate: Effects on fertility Effects on foetal develop- ment		:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
			:	Species: Rat Application Route Method: OECD To Result: negative	
		single exposure ssified based on availa	able	information.	
	STOT - repeated exposure			• • • • • • • • • • •	

Not classified based on available information.

Components:

Barium sulfate:

Assessment

: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity

Components:

(17a)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4-en-20-yn-3-one:

Species	:	Rat
LOAEL	:	0,5 mg/kg
Application Route	:	Oral
Exposure time	:	1 yr
Target Organs	:	Reproductive organs, Endocrine system
Species	:	Dog
LOAEL	:	0,625 mg/kg
Application Route	:	Oral
Exposure time	:	26 Weeks
Target Organs	:	Reproductive organs, Endocrine system
Barium sulfate:		
Species	:	Rat
NOAEL	:	61,1 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
Remarks	:	Based on data from similar materials

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Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

(17α)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4-en-20-yn-3-one:				
Inhalation	:	Symptoms: Headache, Dizziness, Abdominal pain, Nausea, Skin disorders, effects on menstruation, vaginitis, breast ten- derness, mood swings, male reproductive effects, Sweating		

SECTION 12: Ecological information

12.1 Toxicity

Components:

(17α)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4-en-20-yn-3-one:			
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4,0 mg/l Exposure time: 96 h Method: FDA 4.11	
		LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1,3 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 3,9 mg/l Exposure time: 48 h Method: FDA 4.08 Remarks: No toxicity at the limit of solubility	
Toxicity to microorganisms	:	NOEC : 70,8 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209	
		EC50 : > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition	

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Vers 2.5	sion	Revision Date: 09.04.2021		9S Number: 637-00020	Date of last issue: 10.10.2020 Date of first issue: 29.09.2014
				Method: OECD Te	est Guideline 209
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC: 0,059 mg/ Exposure time: 32 Species: Pimepha Method: OECD Te	2 d ales promelas (fathead minnow)
				NOEC: 0,0000027 Exposure time: 18 Species: Oryzias Method: OECD Te	33 d latipes (Japanese medaka)
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC: 1,2 mg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)
	M-Factor toxicity)	or (Chronic aquatic	:	10.000	
	Barium	sulfate:			
	Toxicity	v to fish	:	Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 10 - 100 mg/l 3 h on data from similar materials
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
				mg/l Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50 : > 600 mg/ Exposure time: 3 Method: OECD Te Remarks: Based of	h
				NOEC : > 600 mg Exposure time: 3 Method: OECD Te Remarks: Based o	h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: > 1 mg/l Exposure time: 33 Species: Danio re	



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				Test Guideline 210 on data from similar materials
	ity to daphnia and other ic invertebrates (Chron- city)		Exposure time: 2 Species: Daphnia	1 d a magna (Water flea) on data from similar materials
12.2 Persi	stence and degradabi	lity		
Com	oonents:			
(17α) [.]	-13-Ethyl-17-hydroxy-1	11-n	nethylene-18,19-d	linorpregn-4-en-20-yn-3-one:
Stabil	ity in water	:	Hydrolysis: < 10 Method: FDA 3.0	
12.3 Bioad	ccumulative potential			
Com	oonents:			
(17α) [.]	-13-Ethyl-17-hydroxy-1	11-n	nethylene-18,19-d	linorpregn-4-en-20-yn-3-one:
Bioac	cumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 128 Fest Guideline 305
	on coefficient: n- ol/water	:	log Pow: 3,5	
Bariu	m sulfate:			
Bioac	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): < 500
	on coefficient: n- ol/water	:	log Pow: -1,03 Remarks: Calcul	ation
12.4 Mobi	lity in soil			
Com	oonents:			
(17α)·	-13-Ethyl-17-hydroxy-1	11-n	nethylene-18,19-d	linorpregn-4-en-20-yn-3-one:
	oution among environ- al compartments	:	log Koc: 2,84 Method: FDA 3.0	08
12.5 Resu	Its of PBT and vPvB a	sse	ssment	
Produ	uct:			
	esment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of

according to Regulation (EC) No. 1907/2006



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12.6 Othe	r adverse effects		
Prod	uct:		
Endo tial	crine disrupting poten-	ered to have e REACH Article	e/mixture does not contain components consid- ndocrine disrupting properties according to a 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at
		levels of 0.1%	
	I 13: Disposal cons e treatment methods		
	e treatment methods	iderations : Dispose of in a According to th are not produc Waste codes s	

14.1 UN number or ID number

ADN	:	UN 3077
ADR	:	UN 3077
RID	:	UN 3077
IMDG	:	UN 3077
ΙΑΤΑ	:	UN 3077
14.2 UN proper shipping name		
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		((17α)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4- en-20-yn-3-one)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((17α)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4-
		en-20-yn-3-one)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		((17α)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4- en-20-yn-3-one)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((17α)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4- en-20-yn-3-one)

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ΙΑΤΑ		((17α)-1	nmentally hazardous substance, solid, n.o.s. 13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4- yn-3-one)
14.3 Tran	sport hazard class(es)		
ADN		: 9	
ADR		: 9	
RID		: 9	
IMDO	3	: 9	
ΙΑΤΑ		: 9	
14.4 Pack	ting group		
Class	ing group sification Code rd Identification Number Is	: III : M7 : 90 : 9	
Class Haza Labe	ing group sification Code rd Identification Number ls el restriction code	: III : M7 : 90 : 9 : (-)	
Class	ing group sification Code rd Identification Number Is	: III : M7 : 90 : 9	
Labe	ing group	: III : 9 : F-A, S-F	.F
	(Cargo) ing instruction (cargo aft)	: 956	
Pack	ing instruction (LQ) ing group	: Y956 : III : Miscella	aneous
Pack ger a Pack	(Passenger) ing instruction (passen- ircraft) ing instruction (LQ) ing group Is	: 956 : Y956 : III : Miscella	aneous
14.5 Envi	ronmental hazards		

ADN

Environmentally hazardous : yes

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	DR Ivironmentally hazardous	: yes	
RI Er	D wironmentally hazardous	: yes	
	DG arine pollutant	: yes	
	TA (Passenger) wironmentally hazardous	: yes	
	TA (Cargo) wironmentally hazardous	: yes	

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High	: Not applicable
Concern for Authorisation (Article 59).	
REACH - List of substances subject to authorisation	: Not applicable
(Annex XIV)	
Regulation (EC) No 1005/2009 on substances that de-	: Not applicable
plete the ozone layer	
Regulation (EU) 2019/1021 on persistent organic pollu-	: Not applicable
tants (recast)	
Regulation (EC) No 649/2012 of the European Parlia-	: Not applicable
ment and the Council concerning the export and import	
of dangerous chemicals	
Seveso III: Directive 2012/18/EU of the European Parlia	ment and of the Council o

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Young people under the age of 18 are not allowed to use or be exposed to the product professionally. Young people above the age of 15 are, however, except from this rule if the product is a necessary part of their education.

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т	he components of this pro	oduct are reported in	the following inventories:
A	CS	: not determined	
D	SL	: not determined	
IE	CSC	: not determined	
	hemical safety assessme mical Safety Assessment h		ıt.
SECT	ION 16: Other informat	ion	
0	ther information		anges have been made to the previous version n the body of this document by two vertical
F	ull text of H-Statements		
	360F 410	: May damage fer : Very toxic to aqu	tility. Jatic life with long lasting effects.
F	ull text of other abbreviati	ons	
	quatic Chronic epr.	: Long-term (chro : Reproductive to	nic) aquatic hazard
20	006/15/EC 006/15/EC / TWA		ve occupational exposure limit values
W G th	aterways; ADR - Europea oods by Road; AIIC - Austr e Testing of Materials; bw	an Agreement concer alian Inventory of Indu - Body weight; CLP -	ational Carriage of Dangerous Goods by Inland ning the International Carriage of Dangerous ustrial Chemicals; ASTM - American Society for Classification Labelling Packaging Regulation; en Mutagen or Reproductive Toxicant: DIN -

Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous



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Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance 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 Bio-accumulative

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/

Classification of the mixture:		Classification procedure:
Repr. 1A	H360F	Calculation method
Aquatic Chronic 1	H410	Calculation method

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.

NO / EN