

Version	Revision Date:	SDS Number:	Date of last issue: 08.12.2023
4.0	06.04.2024	25305-00025	Date of first issue: 24.10.2014

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

1.1 Product identifier		
Trade name	:	Cloprostenol Formulation
Other means of identification	:	ESTRUMATE® (A002698) ESTRUMATE SYNTHETIC PROSTAGLANDIN FOR CATTLE AND HORSES (36076)
1.2 Relevant identified uses of the	he s	substance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable
1.3 Details of the supplier of the	sat	fety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

EUH210 Safety data sheet available on request.



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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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity: 1.620 mg/kg	>= 1 - < 10
Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3- hydroxybut-1-enyl]-3,5- dihydroxycyclopentyl]hept-5-enoate	55028-72-3 259-439-3	Resp. Sens. 1; H334 Repr. 1B; H360F STOT SE 1; H370 (Lungs) STOT RE 1; H372 (Ovary)	< 0,1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures				
Protection of first-aiders	:	No special precautions are necessary for first aid responders.		
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.		



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In cas	e of skin contact		ter and soap as a precaution. ttention if symptoms occur.
In case of eye contact			th water as a precaution. ttention if irritation develops and persists.
If swallowed		Get medical a	DO NOT induce vomiting. ttention if symptoms occur. horoughly with water.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
SECTION 6: Accidental release		

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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		tective equipr	nent recommendations (see section 8).				
6.2 Environmental precautions							
Environmental precautions :		Prevent furthe Prevent sprea barriers). Retain and di Local authorit	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). 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		For large spill ment to keep be pumped, s Clean up rem bent. Local or natio posal of this r employed in t mine which re Sections 13 a	inert absorbent material. s, provide dyking or other appropriate contain- material from spreading. If dyked material can store recovered material in appropriate container. aining materials from spill with suitable absor- nal regulations may apply to releases and dis- naterial, as well as those materials and items he cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.				

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

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
		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.



Commission Regulation (EU) 2020/878

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Re	ditions for safe storage, quirements for storage as and containers	, inc :	Keep in properly	patibilities labelled containers. Store in accordance with ional regulations.
Advice on common storage		:	Do not store with Strong oxidizing Gases	the following product types: agents
•	cific end use(s) ecific use(s)	:	No data available)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Sodium $[1\alpha(Z),2\beta(1E,3R^*),$ $3\alpha,5\alpha]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-dihydroxycyclopen-tyl]hept-5-enoate$	55028-72-3	TWA	0.01 ug/m3 (OEB 5)	Internal		
	Further information: RSEN, Skin					
		Wipe limit	0.1 ug/100 cm2	Internal		

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
	Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic	4 mg/kg

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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11			effects	bw/day
	Consumers	Ingestion	Acute systemic ef-	20 mg/kg
			fects	bw/day

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

Substance name	Environmental Compartment	Value
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Intermittent use/release	2,3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5,27 mg/kg
	Marine sediment	0,527 mg/kg
	Soil	0,456 mg/kg

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/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	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. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387 Organic vapour type (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Physica	al state	:	Aqueous solution	
	Colour		:	clear	
	Odour		:	No data available	
	Odour ⁻	Fhreshold	:	No data available	
	Melting	point/freezing point	:	No data available	•
	Initial be range	oiling point and boiling	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	No data available	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	рН		:	5,6 - 6,1 (20 - 25	°C)
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	
	Relative	e density	:	1	
	Density		:	No data available	
	Relative	e vapour density	:	No data available	
		characteristics icle size	:	Not applicable	

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9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Evaporation rate	:	No data available
Molecular weight	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of : Inhalation Skin contact exposure Ingestion Eye contact Acute toxicity Not classified based on available information. Product: Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method : Acute toxicity estimate: > 5 mg/l Acute inhalation toxicity Exposure time: 4 h Test atmosphere: dust/mist

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ersion .0	Revision Date: 06.04.2024		9S Number: 305-00025	Date of last issue: 08.12.2023 Date of first issue: 24.10.2014
			Method: Calculati	on method
<u>Com</u>	ponents:			
Benz	yl alcohol:			
Acute	e oral toxicity	:	LD50 (Rat): 1.620	mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4,1 Exposure time: 4 Test atmosphere: Method: OECD To	h dust/mist
	um [1α(Z),2β(1E,3R*),3c droxycyclopentyl]hept-			hlorophenoxy)-3-hydroxybut-1-enyl]-3,5-
	e oral toxicity		LD50 (Rat): > 25	mg/kg tality observed at this dose.
	e toxicity (other routes of nistration)	:	LD50 (Rat): > 50 Application Route	
			LD50 (Rat): > 50 Application Route	
			LD50 (Rat): 5 mg/ Application Route Remarks: No mor	
			LD50 (Mouse): 35 Application Route	
			LD50 (Mouse): 54 Application Route	
			Application Route Target Organs: Lu	
			TDLo (Monkey): 0 Application Route Target Organs: ov	: Intramuscular
	corrosion/irritation lassified based on availa	ble	information	
	ponents:			
	yl alcohol:			
Speci	•	:	Rabbit	

Species	:	Rabbit
	:	OECD Test Guideline 404
Result	:	No skin irritation

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Sodium $[1\alpha(Z), 2\beta(1E, 3R^*), 3\alpha, 5\alpha]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3, 5-dihydroxycyclopentyl]hept-5-enoate:$

Remarks	:	Not classified due to lack of data.
		Can be absorbed through skin.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Benzyl alcohol:

Species : Method : Result :	Rabbit
Method :	OECD Test Guideline 405
Result :	Irritation to eyes, reversing within 21 days

Sodium $[1\alpha(Z), 2\beta(1E, 3R^*), 3\alpha, 5\alpha]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3, 5-dihydroxycyclopentyl]hept-5-enoate:$

Remarks

: Not classified due to lack of data.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Benzyl alcohol:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Test Type Exposure routes Species Method Result	: negative

Sodium $[1\alpha(Z), 2\beta(1E, 3R^*), 3\alpha, 5\alpha]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3, 5-dihydroxycyclopentyl]hept-5-enoate:$

Result : Sensitiser

Germ cell mutagenicity

Not classified based on available information.

Components:

Benzyl alcohol:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES)
	Result: negative

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Genc	Genotoxicity in vivo :		togenetic assay becies: Mouse	nalian erythrocyte micronucleus test (in vivo) : Intraperitoneal injection			
Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-en dihydroxycyclopentyl]hept-5-enoate:							
	otoxicity in vitro	: Те		ial reverse mutation assay (AMES)			
		Te		mammalian cell gene mutation test se lymphoma cells			
		Te		osomal aberration nan lymphocytes			
Geno	otoxicity in vivo	Sp Ce Ap	est Type: Micron becies: Mouse ell type: Bone m oplication Route esult: negative				
Not c	inogenicity lassified based on avail ponents:	able info	ormation.				
Benz	yl alcohol:						
	cation Route sure time od	: Ing : 10 : Ol	ouse gestion 3 weeks ECD Test Guide gative	eline 451			
	um [1α(Z),2β(1E,3R*),3 droxycyclopentyl]hept			nlorophenoxy)-3-hydroxybut-1-enyl]-3,5-			
Rema			ot classified due	to lack of data.			
-	oductive toxicity lassified based on avail	able info	ormation.				
Com	ponents:						
	yl alcohol:						
Effec	ts on fertility	Sp Ap	est Type: Fertility pecies: Rat oplication Route esult: negative	y/early embryonic development : Ingestion			



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Effects ment	s on foetal develop-	: Test Type Species:	n Route: Ingestion					
	Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl] dihydroxycyclopentyl]hept-5-enoate:							
	s on fertility	: Test Type Species: Applicatio General T Fertility: N Result: An Species: Applicatio	n Route: Oral Toxicity F1: NOAEL: 0,015 mg/kg body weight IOAEL: > 0,04 mg/kg body weight nimal testing did not show any effects on fertility. Cattle n Route: Intramuscular Toxicity - Parent: LOAEL: 0,16 µg/kg positive					
Effects	s on foetal develop-	Species: Applicatio Teratoger Result: N Test Type Species: Applicatio Teratoger	n Route: Subcutaneous nicity: NOAEL: 0,250 µg/kg o teratogenic effects r: Development					
sessm	ductive toxicity - As- ent	: May dam	age fertility.					

STOT - single exposure

Not classified based on available information.

Components:

Sodium $[1\alpha(Z), 2\beta(1E, 3R^*), 3\alpha, 5\alpha]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3, 5-dihydroxycyclopentyl]hept-5-enoate:$

Target Organs Assessment : Lungs

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Assessment : Causes damage to organs.
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STOT - repeated exposure

Not classified based on available information.



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ersion D	Revision Date: 06.04.2024	SDS Number: 25305-00025	Date of last issue: 08.12.2023 Date of first issue: 24.10.2014
Com	oonents:		
	um [1α(Z),2β(1E,3R [;] Iroxycyclopentyl]he		4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3
	et Organs ssment	: Ovary : Causes dan exposure.	nage to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
Benz	yl alcohol:		
Speci NOAI Applio Expos Metho	EL cation Route sure time	: 28 Days `	dust/mist/fume) Guideline 412
	um [1α(Ζ),2β(1E,3R' Iroxycyclopentyl]he		4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3
Expo	ΞL	: Rat : 0,05 mg/kg : 0,15 mg/kg : Oral : 3 Months : Ovary	
Speci LOAE Applic Expos	L cation Route	: Rat : 0,0125 mg/ł : Subcutanec : 30 Days	
	et Organs	: Ovary	
Targe Speci NOAE LOAE Applie Expos	et Organs es EL	: Ovary : Monkey : 0,05 mg/kg : 0,15 mg/kg : Oral : 3 Months : Heart, Testi	S
Targe Speci NOAE LOAE Applie Expos Targe	et Organs EL EL cation Route sure time	: Monkey : 0,05 mg/kg : 0,15 mg/kg : Oral : 3 Months : Heart, Testi	S

Sodium $[1\alpha(Z),2\beta(1E,3R^*),3\alpha,5\alpha]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-dihydroxycyclopentyl]hept-5-enoate:$

Not applicable



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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:

Sodium $[1\alpha(Z), 2\beta(1E, 3R^*), 3\alpha, 5\alpha]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3, 5-dihydroxycyclopentyl]hept-5-enoate:$

General Information	 Target Organs: Uterus (including cervix) Symptoms: Embryo-foetal toxicity, foetal mortality, menstrual irregularities, miscarriage Target Organs: Lungs Symptoms: Asthma, bronchospasm
Inhalation	 Target Organs: Lungs Symptoms: bronchospasm, Asthma Remarks: May cause sensitisation of susceptible persons by inhalation of aerosol or dust. Target Organs: Uterus (including cervix) Symptoms: Embryolethal effects, menstrual irregularities
Skin contact	 Target Organs: Lungs Symptoms: bronchospasm Remarks: Can be absorbed through skin. Target Organs: Uterus (including cervix) Symptoms: Embryolethal effects

SECTION 12: Ecological information

12.1 Toxicity

Components:

Benzvl	alcohol:
D 011231	ai001101.

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

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Toxicit aquati ic toxic	y to daphnia and other c invertebrates (Chron- city)	r E N : N E S	ng/l Exposure time: 72 Aethod: OECD T NOEC: 51 mg/l Exposure time: 2 Species: Daphnia	est Guideline 201

Sodium $[1\alpha(Z), 2\beta(1E, 3R^*), 3\alpha, 5\alpha]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3, 5-dihydroxycyclopentyl]hept-5-enoate:$

Ecotoxicology Assessment

Acute aquatic toxicity	:	Toxic effects cannot be excluded

Chronic aquatic toxicity	:	Toxic effects cannot be excluded

12.2 Persistence and degradability

Components:

Benzyl alcohol:

12.3 Bioaccumulative potential

Components:

Benzyl alcohol:

Partition coefficient: n- : log Pow: 1,05 octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: 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.

12.6 Endocrine disrupting properties

Product: Assessment

:	The substance/mixture does not contain components consid-
	ered to have endocrine disrupting properties according to
	REACH Article 57(f) or Commission Delegated regulation



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		(EU) 2017/210	0 or Commission Regulation (EU) 2018/605

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. 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.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADN	:	Not regulated as a dangerous good



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ADR		:	Not regulated as	a dangerous good
RID		:	Not regulated as	a dangerous good
IMDG		:	Not regulated as	a dangerous good
ΙΑΤΑ	(Cargo)	:	Not regulated as	a dangerous good
ΙΑΤΑ	(Passenger)	:	Not regulated as	a dangerous good
14.5 Environmental hazards				
Not regulated as a dangerous good				
14.6 Speci	al precautions for use	er		
Not ap	plicable			
14.7 Maritime transport in bulk according to IMO instruments				
Rema	rks	:	Not applicable for	r product as supplied.

SECTION 15: Regulatory information

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

:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75
	Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not. If you intend to use this product as tattoo ink, please contact your ven- dor.
:	Not applicable
nent	and of the Council on the control of
	:



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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

ECTION 16: Other info	rmation
Other information	: Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Stateme	ents
H302	: Harmful if swallowed.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H334	 May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.
H360F	: May damage fertility.
H370	: Causes damage to organs.
H372	: Causes damage to organs through prolonged or repeated exposure.
Full text of other abbr	eviations

all text of other abbreviations

Acute Tox. :	Acute toxicity
Eye Irrit. :	Eye irritation
Repr. :	Reproductive toxicity
Resp. Sens. :	Respiratory sensitisation
STOT RE :	Specific target organ toxicity - repeated exposure
STOT SE :	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; 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;



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

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/

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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