

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	9374228-00006	Date of first issue: 27.08.2021

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

1.1 Product identifier					
Trade name	:	Cloprostenol (with Propylene Glycol) Formulation			
1.2 Relevant identified uses of t	the 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	e saf	fety data sheet			
Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom			
Telephone	:	+1-908-740-4000			
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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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

Additional Labelling

EUH210 Safety data sheet available on request.



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	9374228-00006	Date of first issue: 27.08.2021

EUH208 Contains 4-Chloro-3-methylphenol. May produce an allergic reaction.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
4-Chloro-3-methylphenol	59-50-7 200-431-6 604-014-00-3	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	>= 0.1 - < 0.25
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
Substances with a workplace exposure Propylene glycol	e limit : 57-55-6		>= 10 - < 20
	200-338-0		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures



Version 4.1	Revision Date: 30.09.2023		OS Number: 74228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021	
Prote	ection of first-aiders	:	No special preca	autions are necessary for first aid responders.	
lf inh	If inhaled			If inhaled, remove to fresh air. Get medical attention if symptoms occur.	
In ca	In case of skin contact			and soap as a precaution. ntion if symptoms occur.	
In ca	se of eye contact	:		water as a precaution. ntion if irritation develops and persists.	
lf sw	allowed	:	Get medical atte) NOT induce vomiting. ntion if symptoms occur. roughly with water.	
4.2 Most	important symptoms a	nd e	effects, both acut	te and delayed	
Risk		:		allergic reaction.	
5.1 Exting	N 5: Firefighting meas guishing media able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical		
Unsı medi	uitable extinguishing	:	None known.		
		44		interes	
-	ial hazards arising from sific hazards during fire- ng	:		nbustion products may be a hazard to health.	
Haza ucts	ardous combustion prod-	:	Carbon oxides		
5.3 Advic	e for firefighters				
Spec	cial protective equipment refighters	:		ned breathing apparatus for firefighting if nec- sonal protective equipment.	
Spec ods	cific extinguishing meth-	:	cumstances and	g measures that are appropriate to local cir- the surrounding environment.	

Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do



Cloprostenol (with Propylene Glycol) Formulation

Version 4.1	Revision Date: 30.09.2023	SDS Number: 9374228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021		
		so. Evacuate area.			
SECTION	I 6: Accidental rele	ase measures			
6.1 Perso	nal precautions, prot	ective equipment and	d emergency procedures		
Perso	nal precautions		Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).		
6.2 Enviro	onmental precautions	5			
Environmental precautions :		Prevent further Prevent spread barriers). Retain and disp If spillage enter	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. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).		
6.3 Metho	ds and material for c	ontainment and clear	ning up		
Methods for cleaning up : Soak up w For large s ment to ke be pumped Clean up re bent. Local or na posal of thi employed i mine which Sections 1			ert absorbent material. provide dyking or other appropriate contain- laterial from spreading. If dyked material can bre recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items the cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding		
6.4 Refere	ence to other section		national requirements.		
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 Advice on safe handling	 Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment 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



Cloprostenol (with Propylene Glycol) Formulation

Version 4.1	Revision Date: 30.09.2023	SDS Number: 9374228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021	
		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 Condi	tions for safe storage,	, including any in	compatibilities	
	irements for storage and containers		erly labelled containers. Store in accordance with r national regulations.	
Advice on common storage		: Do not store Strong oxidiz Gases	with the following product types: zing agents	
-	fic end use(s) fic use(s)	: No data ava	lable	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propylene glycol	57-55-6	TWA (Total va- pour and parti- cles)	150 ppm 474 mg/m3	GB EH40
		TWA (particles)	10 mg/m3	GB EH40
4-Chloro-3- methylphenol	59-50-7	TWA	200 µg/m3 (OEB 2)	Internal
		Wipe limit	100 µg/100 cm2	Internal
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):

Substance name End Use	Exposure routes	Potential health ef- fects	Value
------------------------	-----------------	-------------------------------	-------

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Cloprostenol (with Propylene Glycol) Formulation

Ver 4.1	sion Revision Dat 30.09.2023	e: SDS Nun 9374228-		Date of last issue: 04.04.2023 Date of first issue: 27.08.2021	
	Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
		Workers	Inhalation	Long-term systemic effects	168 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
		Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	4-Chloro-3- methylphenol	Workers	Inhalation	Long-term systemic effects	6.289 mg/m3
		Workers	Skin conta	act Long-term systemic effects	3.567 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	1.551 mg/m3
		Consumers	Skin conta	act Long-term systemic effects	1.783 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0.892 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Propylene glycol	Fresh water	260 mg/l
	Freshwater - intermittent	183 mg/l
	Marine water	26 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry weight (d.w.)
	Marine sediment	57.2 mg/kg dry weight (d.w.)
	Soil	50 mg/kg dry weight (d.w.)
4-Chloro-3-methylphenol	Fresh water	0.015 mg/l
	Intermittent use/release	0.015 mg/l
	Marine water	0.002 mg/l
	Sewage treatment plant	2.286 mg/l
	Fresh water sediment	13.981 mg/kg dry weight (d.w.)
	Marine sediment	13.981 mg/kg dry weight (d.w.)
	Soil	6.399 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.



Cloprostenol (with Propylene Glycol) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	9374228-00006	Date of first issue: 27.08.2021

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

Personal protective equipm	ent	
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.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks Skin and body protection Respiratory 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. If adequate local exhaust ventilation is not available or expo-
Filter type	:	sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 143 Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

internation on bacie physical		a ononnoai proportio
Appearance Colour Odour Odour Threshold	:	Aqueous solution colourless characteristic No data available
рН	:	No data available
Melting point/freezing point	:	-6 °C
Initial boiling point and boiling	:	99 °C
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available



Cloprostenol (with Propylene Glycol) Formulation

Ver 4.1	sion	Revision Date: 30.09.2023		S Number: 74228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
	flamma	ability limit			
	Vapou	r pressure	:	No data available	9
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	1.02 - 1.08	
	Density	¢	:	No data available	9
	Partitio octano	ter solubility n coefficient: n-	:	soluble No data available No data available	
	Decom	position temperature	:	No data available	9
	Viscos Visc	ity cosity, kinematic	:	1.56 - 1.62 mm2	's
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other in	nformation			
	Flamm	ability (liquids)	:	No data available	9
	Molecu	ılar weight	:	No data available	9
	Particle	e size	:	Not applicable	

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



Version 4.1	Revision Date: 30.09.2023		9S Number: 74228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
Mater	rials to avoid	:	Oxidizing agents	
	rdous decomposition paradous decomposition			
SECTION	11: Toxicological in	for	mation	
	mation on toxicologica			
Inforn expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	ble	information.	
Com	oonents:			
	oro-3-methylphenol:			
Acute	oral toxicity	:	LD50 (Mouse): 60	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2.8 Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
	um [1α(Z),2β(1E,3R*),3α Iroxycyclopentyl]hept-{			hlorophenoxy)-3-hydroxybut-1-enyl]-3,5-
Acute	e oral toxicity	:	LD50 (Rat): > 25 Remarks: No mor	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	
			TDLo (Monkey): 0 Application Route).0025 - 0.025 mg/kg : Intramuscular



sion	Revision Date: 30.09.2023	SDS Number: 9374228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
		Target Orgar Symptoms: E	ns: Lungs Diarrhoea, Vomiting, Rapid respiration
			ey): 0.0013 mg/kg toute: Intramuscular hs: ovaries
Prop	ylene glycol:		
	oral toxicity	: LD50 (Rat): 2	22,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): : Exposure tim Test atmospl	
Acute	e dermal toxicity		t): > 2,000 mg/kg The substance or mixture has no acute derma
-	corrosion/irritation lassified based on ava	ilable information.	
<u>Com</u>	oonents:		
4-Chl	oro-3-methylphenol:		
Speci		: Rabbit	
Metho Resu			Guideline 404 er 1 to 4 hours of exposure
	ım [1α(Ζ),2β(1E,3R*) Iroxycyclopentyl]her		(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5
Rema	arks		l due to lack of data. rbed through skin.
Prop	ylene glycol:		
Speci	es	: Rabbit	
Metho Resu		: OECD Test C : No skin irritat	Guideline 404 ion
<u> </u>	us eye damage/eye i	rritation ilable information.	
	lassified based on ava		
Not c	lassified based on ava ponents:		
Not cl <u>Com</u>			
Not cl <u>Com</u>	oonents: oro-3-methylphenol: es	: Rabbit	Guideline 405

UK REACH Regulations SI 2019/758



Cloprostenol (with Propylene Glycol) Formulation

rsion	Revision Date: 30.09.2023	SDS Number: 9374228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
Sodiı	um [1α(Ζ).2β(1E.3R*).3α.5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,
	lroxycyclopentyl]he		
Rema	arks	: Not classified	due to lack of data.
Prop	ylene glycol:		
Speci		: Rabbit	
Metho		: OECD Test G	
Resu	lt	: No eye irritatio	n
Resp	iratory or skin sens	itisation	
Skin	sensitisation		
Not c	lassified based on av	ailable information.	
Resp	iratory sensitisatior	า	
Not c	lassified based on av	ailable information.	
<u>Com</u>	ponents:		
4-Chl	oro-3-methylpheno	l:	
Test	•••	: Maximisation	Test
	sure routes	: Skin contact	
Speci		: Guinea pig	
Asses	ssment	: Probability or rate in humans	evidence of low to moderate skin sensitisation
	um [1α(Ζ),2β(1E,3R* Iroxycyclopentyl]he		3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,
Resu		: Sensitiser	
Prop	ylene glycol:		
Test		: Maximisation	Test
Expo	sure routes	: Skin contact	
Speci		: Guinea pig	
Resu	lt	: negative	
Germ	cell mutagenicity		
Not c	lassified based on av	ailable information.	
<u>Com</u>	ponents:		
4-Chl	oro-3-methylpheno	l:	
Geno	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES)

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



Versior 4.1	n Revision Date: 30.09.2023		DS Number: 74228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
Ge	enotoxicity in vitro	:	Result: negative Test Type: In vitro Test system: mou Result: negative	ial reverse mutation assay (AMES) o mammalian cell gene mutation test use lymphoma cells nosomal aberration nan lymphocytes
Ge	enotoxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: negative	arrow
	opylene glycol:			
Ge	enotoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: Chrom Method: OECD To Result: negative	nosome aberration test in vitro est Guideline 473
Ge	enotoxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) : Intraperitoneal injection

Carcinogenicity

Not classified based on available information.

Components:

Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-dihydroxycyclopentyl]hept-5-enoate:Remarks: Not classified due to lack of data.

Propylene glycol:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

Reproductive toxicity

Not classified based on available information.



Version 4.1	Revision Date: 30.09.2023	-	9S Number: 74228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
<u>Cor</u>	nponents:			
	hloro-3-methylphenol: ects on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effe mer	ects on foetal develop- nt	:	Test Type: Repro test Species: Rat Application Route Result: negative	duction/Developmental toxicity screening
	lium [1α(Z),2β(1E,3R*),3 ydroxycyclopentyl]hept			hlorophenoxy)-3-hydroxybut-1-enyl]-3,5-
	ects on fertility	:	Test Type: Three Species: Rat Application Route General Toxicity I Fertility: NOAEL: Result: Animal test	
			Species: Cattle Application Route General Toxicity - Result: positive Remarks: Abortio	Parent: LOAEL: 0.16 µg/kg
Effe mer	ects on foetal develop- nt	:	Test Type: Develor Species: Rabbit Application Route Teratogenicity: No Result: No teratog	: Subcutaneous DAEL: 0.250 μg/kg
			Test Type: Develor Species: Rat Application Route Teratogenicity: No Result: No teratog	: Oral DAEL: 100 μg/kg
•	productive toxicity - As- sment	:	May damage ferti	lity.
Pro	pylene glycol:			
	ects on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study
Effe	ects on foetal develop-	:	Test Type: Embry	ro-foetal development



Version 4.1	Revision Date: 30.09.2023	SDS Number: 9374228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
ment		Species: Mo Application F Result: nega	coute: Ingestion
	T - single exposure classified based on ava	ilable information	
	ponents:		
4-Ch	loro-3-methylphenol:		
	ssment		espiratory irritation.
	um [1α(Ζ),2β(1E,3R*), droxycyclopentyl]hep		-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-
	et Organs ssment	: Lungs : Causes dam	age to organs.
	T - repeated exposure		
	lassified based on ava	liable information.	
Com	ponents:		
	um [1α(Z),2β(1E,3R*), droxycyclopentyl]hep		-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-
-	et Organs ssment	: Ovary : Causes dam exposure.	age to organs through prolonged or repeated
Repe	eated dose toxicity		
<u>Com</u>	ponents:		
4-Ch	loro-3-methylphenol:		
	EL	: Rat : 200 mg/kg : 400 mg/kg : Ingestion : 28 Days	
	um [1α(Ζ),2β(1E,3R*), droxycyclopentyl]hep		-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-
Spec NOA LOAI Appli Expo Targe	ies EL EL cation Route isure time et Organs	: Rat : 0.05 mg/kg : 0.15 mg/kg : Oral : 3 Months : Ovary	
Spec	ies	: Rat	

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Cloprostenol (with Propylene Glycol) Formulation

Version 4.1	Revision Date: 30.09.2023	SDS Number:Date of last issue: 04.04.20239374228-00006Date of first issue: 27.08.2021	
Expos	L ation Route ure time Organs	 0.0125 mg/kg Subcutaneous 30 Days Ovary 	
Expos	L	 Monkey 0.05 mg/kg 0.15 mg/kg Oral 3 Months Heart, Testis 	
Propy	lene glycol:		
		: Rat, male : >= 1,700 mg/kg : Ingestion : 2 yr	
Aspira	ation toxicity		
Not cla	assified based on avail	able information.	

Components:

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

Not applicable

Experience with human exposure

Components:

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

irregularities, miscarriage Target Organs: Lungs Symptoms: Asthma, bronchospasm
Inhalation : Target Organs: Lungs Symptoms: bronchospasm, Asthma
Remarks: May cause sensitisation of susceptible persons inhalation of aerosol or dust.
Target Organs: Uterus (including cervix)
Skin contactSymptoms: Embryolethal effects, menstrual irregularitiesSkin contact: Target Organs: Lungs Symptoms: bronchospasm Remarks: Can be absorbed through skin. Target Organs: Uterus (including cervix) Symptoms: Embryolethal effects



Cloprostenol (with Propylene Glycol) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	9374228-00006	Date of first issue: 27.08.2021

SECTION 12: Ecological information

12.1 Toxicity

Components:

4-Chloro-3-methylphenol:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 917 µg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Chlorella pyrenoidosa (algae)): 15 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC10 (Chlorella pyrenoidosa (algae)): 2.3 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	1
Toxicity to microorganisms	:	EC50 : 22.86 mg/l Exposure time: 60 h
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 0.32 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

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
Propylene glycol: Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/l Exposure time: 72 h



c invertebrates (Chron-		Method: OECD Te	est Guideline 201
ty to daphnia and other c invertebrates (Chron-		NOEC (Pseudomo	
c invertebrates (Chron-		Exposure time: 18	onas putida): > 20,000 mg/l h
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC: 13,020 mg Exposure time: 7 c Species: Ceriodap	
stence and degradabil	ity		
onents:			
pro-3-methylphenol: gradability	:	Result: Readily bid Biodegradation: 7 Exposure time: 15 Method: OECD Te	8 % d
vlene glycol:			
gradability	:	Result: Readily bio Biodegradation: 9 Exposure time: 28 Method: OECD Te	8.3 [°] % d
cumulative potential			
onents:			
oro-3-methylphenol:			
cumulation	:	Species: Cyprinus Bioconcentration fa	carpio (Carp) actor (BCF): 5.5 - 13
on coefficient: n- bl/water	:	log Pow: 0.477	
lene glycol:			
on coefficient: n- bl/water	:		n (EC) No. 440/2008, Annex, A.8
ity in soil			
ta available			
Its of PBT and vPvB as	se	ssment	
<u>ict:</u> sment	:	to be either persist very persistent and	xture contains no components considered tent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
	stence and degradability ponents: pro-3-methylphenol: gradability dene glycol: gradability dene glycol: gradability cumulative potential ponents: pro-3-methylphenol: cumulation phon coefficient: n- ph/water dene glycol: phon coefficient: n- phon coefficient: n	stence and degradability sonents: pro-3-methylphenol: gradability dene glycol: gradability dene glycol: gradability cumulative potential ponents: pro-3-methylphenol: gradability cumulative potential ponents: pro-3-methylphenol: cumulation cumulation pon coefficient: n- pon coefficient: n- <td< td=""><td>stence and degradability sonents: poro-3-methylphenol: gradability : species: Cyprinus : iop Pow: 0.477 <</td></td<>	stence and degradability sonents: poro-3-methylphenol: gradability : species: Cyprinus : iop Pow: 0.477 <



Cloprostenol (with Propylene Glycol) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	9374228-00006	Date of first issue: 27.08.2021

12.6 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.

12.7 Other adverse effects

No data available

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

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
	•	Not regulated as a daligerous good
RID	:	Not regulated as a dangerous good
RID IMDG	:	с с с
	:	Not regulated as a dangerous good

14.3 Transport hazard class(es)



Cloprostenol (with Propylene Glycol) Formulation

Versio 4.1	n	Revision Date: 30.09.2023		DS Number: 374228-00006	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
Α	DN		:	Not regulated as	a dangerous good
Α	DR		:	Not regulated as	a dangerous good
R	RID		:	Not regulated as	a dangerous good
IN	MDG		:	Not regulated as	a dangerous good
IA	ΑΤΑ		:	Not regulated as	a dangerous good
14.4 P	Packin	ig group			
Α	DN		:	Not regulated as	a dangerous good
Α	DR		:	Not regulated as	a dangerous good
R	RID		:	Not regulated as	a dangerous good
IN	MDG		:	Not regulated as	a dangerous good
IA	ΑΤΑ (Cargo)	:	Not regulated as	a dangerous good
IA	ATA (F	Passenger)	:	Not regulated as	a dangerous good
		nmental hazards	s go	od	
	-	Il precautions for use	ər		

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (CC Not applicable	MA	H)

Other regulations:



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	9374228-00006	Date of first issue: 27.08.2021

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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.

SECTION 16: Other information

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-Statements					
H302 :	:	Harmful if swallowed.			
H314 :	•	Causes severe skin burns and eye damage.			
H317 :	÷	May cause an allergic skin reaction.			
H318 :	÷	Causes serious eye damage.			
H334 :	•	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.			
H335		May cause respiratory irritation.			
H360F	:	May damage fertility.			
H370	:	Causes damage to organs.			
H372	:	Causes damage to organs through prolonged or repeated			
		exposure.			
H400 :	:	Very toxic to aquatic life.			
H412 :	:	Harmful to aquatic life with long lasting effects.			
Full text of other abbreviations					
Acute Tox.	:	Acute toxicity			
Aquatic Acute :	:	Short-term (acute) aquatic hazard			
Aquatic Chronic	:	Long-term (chronic) aquatic hazard			
Eye Dam.	:	Serious eye damage			
Repr.	:	Reproductive toxicity			
Resp. Sens.	:	Respiratory sensitisation			
Skin Corr.	:	Skin corrosion			
Skin Sens.		Skin sensitisation			
STOT RE : STOT SE :	:	Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure			
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits			
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)			
	•				

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	9374228-00006	Date of first issue: 27.08.2021

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; 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/

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.

GB / EN