

Version 7.1	Revision Date: 28.09.2024	SDS Number: 5266464-0001						
SECTIO	SECTION 1: Identification of the substance/mixture and of the company/undertaking							
1.1 Pro	duct identifier							
Tra	ide name	: Cloproster	nol (with Propylene Glycol) Formulation					
1.2 Rele	evant identified uses of	the substance o	or mixture and uses advised against					
•••	e of the Sub- nce/Mixture	: Veterinary	product					
	commended restrictions use	: Not applica	able					
1.3 Deta	ails of the supplier of the	e safety data sh	eet					
Co	mpany	: MSD 20 Spartar 1619 Spa	n Road rtan, South Africa					
Tel	ephone	: +2711923	9300					

# 1.4 Emergency telephone number

E-mail address of person

responsible for the SDS

+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.

: EHSDATASTEWARD@msd.com

### Additional Labelling

EUH210 Safety data sheet available on request.

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



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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive 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	>= 0,1 - < 0,25
Sodium $[1_{\alpha}(7) 20(1-2D^{*}) 2\alpha - 5\alpha](1/2)$	55020 72 2	aquatic toxicity): 1	- 0.1
Sodium [1a(Z),2β(1E,3R*),3a,5a]-(+/- )-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.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.



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lf swa	allowed	Get medical att	O NOT induce vomiting. ention if symptoms occur. oroughly with water.	
			• ·	
4.2 Most i	mportant symptoms	s and effects, both ac	ute and delayed	
<b>4.2 Most i</b> Risks			ute and delayed n allergic reaction.	
Risks		: May produce a	•	

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 measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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



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6.2 Enviro	nmental precautions						
Enviro	nmental precautions	Prevent furth Prevent spre barriers). Retain and d Local authori	<ul> <li>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.</li> </ul>				
6.3 Method	ds and material for co	ntainment and cl	eaning up				
6.3 Methods and material for conf Methods for cleaning up		For large spil ment to keep be pumped, s Clean up ren bent. Local or natio posal of this employed in mine which r Sections 13 a	inert absorbent material. Is, provide dyking or other appropriate contain- material from spreading. If dyked material can store recovered material in appropriate container. haining materials from spill with suitable absor- onal regulations may apply to releases and dis- material, as well as those materials and items the 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 EXP CONTROLS/PERSONAL PROTECTIC	
Local/Total ventilation Advice on safe handling	Use only with adequate ventilation. Avoid prolonged or repeated contact w Handle in accordance with good indust practice, based on the results of the wo	rial hygiene and safety
	sessment Take care to prevent spills, waste and environment.	ninimize release to the
Hygiene measures	If exposure to chemical is likely during flushing systems and safety showers cl place. When using do not eat, drink or nated clothing before re-use. The effective operation of a facility sho engineering controls, proper personal p appropriate degowning and decontamin industrial hygiene monitoring, medical s use of administrative controls.	ose to the working smoke. Wash contami- uld include review of protective equipment, nation procedures,

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Keep in properly labelled containers. Store in accordance with
areas and containers		the particular national regulations.



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Advice	e on common storage	:	Do not store with Strong oxidizing a Gases	the following product types: agents
-	<b>c end use(s)</b> ic 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
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 inform	nation: 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
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 contact	Long-term systemic effects	3,567 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,551 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1,783 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,892 mg/kg bw/day



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

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.

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.
Hand protection		
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.



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Resp	iratory protection	sure assessmer	al exhaust ventilation is not available or expo- nt demonstrates exposures outside the rec- delines, use respiratory protection.
Fil	lter type	: Particulates type	

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

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 range	:	99 °C
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 flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1,02 - 1,08
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	:	soluble No data available No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	1,56 - 1,62 mm2/s
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.



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9.2 Other	rinformation			
	mability (liquids)	:	No data availat	ble
Mole	ecular weight	:	No data availat	ble
	cle size		Not applicable	
Falu		•		
SECTIO	N 10: Stability and r	roacti	vitv	
320110	N TO. Stability and I	eacti	vity	
10.1 Rea	ctivity			
Not o	classified as a reactivity	y haza	rd.	
	mical stability le under normal conditi	ions.		
10.3 Pos	sibility of hazardous	reaction	ons	
Haza	ardous reactions	:	Can react with	strong oxidizing agents.
10.4 Con	ditions to avoid			
Conditions to avoid : None known.				
10.5 Inco	mpatible materials			
Mate	erials to avoid	:	Oxidizing agent	ts
10.6 Haza	ardous decompositio	n prod	ducts	
	azardous decompositio	-		
SECTIO	N 11: Toxicological	infor	mation	
	-			
	rmation on toxicologi			
	mation on likely routes	of :	Inhalation Skin contact	
0.140			Ingestion Eye contact	
Acut	te toxicity			
Not	classified based on ava	ailable	information.	
Com	ponents:			
4-Ch	loro-3-methylphenol:	:		
Acut	e oral toxicity	:	LD50 (Mouse): 6	600 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 2,	
			Exposure time:	

Test atmosphere: dust/mist



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	Acute	dermal toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
		n [1α(Ζ),2β(1E,3R*),3α oxycyclopentyl]hept-			hlorophenoxy)-3-hydroxybut-1-enyl]-3,5-
	Acute	oral toxicity	:	LD50 (Rat): > 25 Remarks: No mor	mg/kg tality observed at this dose.
		oxicity (other routes of stration)	:	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
		orrosion/irritation	ble	information	
		onents:	IDIE	information.	
		ro-3-methylphenol:			

Species:RabbitMethod:OECD TestResult:Corrosive af	t Guideline 404 after 1 to 4 hours of exposure
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# Sodium $[1\alpha(Z),2\beta(1E,3R^*),3\alpha,5\alpha]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-dihydroxycyclopentyl]hept-5-enoate:$

Pomorke	
Remarks	

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

### Serious eye damage/eye irritation

Not classified based on available information.



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Comp	oonents:				
4-Chl	oro-3-methylphenol:	:			
Specie		:	Rabbit		
Metho		:	OECD Test Gu		
Resul	t	:	Irreversible effects on the eye		
	ım [1α(Ζ),2β(1E,3R*) roxycyclopentyl]hej			-chlorophenoxy)-3-hydroxybut-1-enyl]-3	
Rema	rks	:	Not classified d	ue to lack of data.	
Respi	iratory or skin sensi	tisatio	on		
Skin s	sensitisation				
Not cl	assified based on ava	ilable	information.		
-	ratory sensitisation assified based on ava	ailable	information.		
Comp	oonents:				
4-Chl	oro-3-methylphenol:				
Test T		:	Maximisation T	est	
	sure routes	:	Skin contact		
Speci	es	:	Guinea pig		
Asses	sment	:	Probability or ev rate in humans	vidence of low to moderate skin sensitisation	
				-chlorophenoxy)-3-hydroxybut-1-enyl]-3	
-	roxycyclopentyl]he	ot-5-ei			
Resul	t	:	Sensitiser		
	cell mutagenicity assified based on ava	ilable	information.		
Not cl	cell mutagenicity assified based on ava conents:	ilable	information.		
Not cl <u>Comp</u>	assified based on ava ponents:		information.		
Not cla <u>Comp</u> 4-Chle	assified based on ava			erial reverse mutation assay (AMES)	
Not cla <u>Comp</u> <u>4-Chla</u> Genot Sodiu	assified based on ava ponents: oro-3-methylphenol: toxicity in vitro Im [1α(Ζ),2β(1Ε,3R*)	: ,3α,50	Test Type: Bac Result: negative		
Not cla <u>Comp</u> <u>4-Chla</u> Genot Sodiu dihyd	assified based on ava <u>conents:</u> toro-3-methylphenol: toxicity in vitro im [1α(Ζ),2β(1E,3R*) iroxycyclopentyl]hej	: ,3α,50	Test Type: Bac Result: negative t]-(+/-)-7-[2-[4-(3- noate:	-chlorophenoxy)-3-hydroxybut-1-enyl]-3	
Not cla <u>Comp</u> <u>4-Chla</u> Genot Sodiu dihyd	assified based on ava ponents: oro-3-methylphenol: toxicity in vitro Im [1α(Ζ),2β(1Ε,3R*)	: ,3α,50	Test Type: Bac Result: negative t]-(+/-)-7-[2-[4-(3- noate:	echlorophenoxy)-3-hydroxybut-1-enyl]-3 Berial reverse mutation assay (AMES)	
Not cla <u>Comp</u> <u>4-Chla</u> Genot Sodiu dihyd	assified based on ava <u>conents:</u> toxicity in vitro im [1α(Z),2β(1E,3R*) iroxycyclopentyl]hej	: ,3α,50	Test Type: Bac Result: negative <b>1]-(+/-)-7-[2-[4-(3</b> - <b>noate:</b> Test Type: Bac Result: negative Test Type: In vi	echlorophenoxy)-3-hydroxybut-1-enyl]-3 rerial reverse mutation assay (AMES)	



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			omosomal aberration uman lymphocytes al
Geno	toxicity in vivo	: Test Type: Micr Species: Mouse Cell type: Bone Application Rou Result: negative	e marrow te: Intraperitoneal
Not cl	nogenicity assified based on ava	ailable information.	
Sodiu	<u>ponents:</u> Im [1α(Z),2β(1E,3R*) Iroxycyclopentyl]he		-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-
Rema			ue to lack of data.
-	oductive toxicity assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
	oro-3-methylphenol		
Effect	s on fertility	: Test Type: One Species: Rat Application Rou Result: negative	
Effect ment	s on foetal develop-	: Test Type: Rep test Species: Rat Application Rou Result: negative	
	ım [1α(Z),2β(1E,3R*) roxycyclopentyl]he		-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-
Effect	s on fertility	Species: Rat Application Rou General Toxicity Fertility: NOAEI	ee-generation study te: Oral / F1: NOAEL: 0,015 mg/kg body weight .: > 0,04 mg/kg body weight .esting did not show any effects on fertility.
			te: Intramuscular / - Parent: LOAEL: 0,16 μg/kg ion
- "	s on foetal develop-	: Test Type: Dev	



ment       Species: Rabbit Application Route: Subcutaneous Teratogenicity: NOAEL: 0,250 µg/kg Result: No teratogenic effects         Test Type: Development Species: Rat Application Route: Oral Teratogenicity: NOAEL: 100 µg/kg Result: No teratogenic effects         Reproductive toxicity - As- sessment       May damage fertility.         STOT - single exposure Not classified based on available information.       May damage fertility.         Assessment       May cause respiratory irritation.         Sodium [1a(Z),2β(1E,3R <sup>+</sup> ),3a,5a]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3 dihydroxycyclopenty][hept-5-encate: Target Organs       Imgs Assessment         STOT - repeated exposure Not classified based on available information.       Imgs Assessment         StoT - repeated exposure Not classified based on available information.       Imgs Assessment         StoT - repeated exposure Not classified based on available information.       Imgs Assessment         StoT - repeated exposure Not classified based on available information.       Imgs Assessment         StoT - repeated exposure Not classified based on available information.       Imgs Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity Components:       Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity Components:       200 mg/kg Application Route         Species       Rat NOAEL       200 mg/kg Application Route         Sodium [1a(Z),2β(1E,3R <sup>+</sup> ),3a,5a]	rsion	Revision Date: 28.09.2024	SDS Number: 5266464-00012	Date of last issue: 06.04.2024 Date of first issue: 14.11.2019
Species: Rat Application Route: Oral Teratogenicity: NOAEL: 100 µg/kg Result: No teratogenic effects         Reproductive toxicity - As- sessment       May damage fertility.         STOT - single exposure       Not classified based on available information.         Components:       4-Chloro-3-methylphenol: Assessment         4-Chloro-3-methylphenol: Assessment       :         May cause respiratory irritation.         Sodium [1a(Z),2β(1E,3R*),3a,5a]-{+/-}>-7-[2-[4-{3-chlorophenoxy}-3-hydroxybut-1-eny]-3 dihydroxycyclopenty]]hept-5-enoate: Target Organs         Target Organs       :         Lungs         Assessment       :         Causes damage to organs.         STOT - repeated exposure         Not classified based on available information.         Components:         Sodium [1a(Z),2β(1E,3R*),3a,5a]-{+/-}>-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-eny]-3 dihydroxycyclopenty]]hept-5-enoate:         Target Organs       :         Components:         Sodium [1a(Z),2β(1E,3R*),3a,5a]-{+/-}>-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-eny]-3 dihydroxycyclopenty]]hept-5-enoate:         Target Organs       :         Ovary         Assessment       :         Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity         Components:         4-Chloro-3-methylphenol:<	ment		Application Teratogenic	Route: Subcutaneous ;ity: NOAEL: 0,250 µg/kg
sessment         STOT - single exposure         Not classified based on available information.         Components:         4-Chloro-3-methylphenol:         Assessment       : May cause respiratory irritation.         Sodium [1a(Z),2β(1E,3R*),3a,5a]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3 dihydroxycyclopentyl]hept-5-enoate:         Target Organs       : Lungs Assessment         Assessment       : Causes damage to organs.         STOT - repeated exposure Not classified based on available information.         Components:         Sodium [1a(Z),2β(1E,3R*),3a,5a]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3 dihydroxycyclopentyl]hept-5-enoate:         Target Organs       : Ovary Assessment         Assessment       : Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity         Components:         4-Chloro-3-methylphenol:         Species       : Rat NOAEL         : 200 mg/kg LOAEL       : 200 mg/kg LOAEL         : Ungestion Exposure time       : 28 Days         Sodium [1a(Z),2β(1E,3R*),3a,5a]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3 dihydroxycyclopentyl]hept-5-enoate:			Species: Ra Application Teratogenic	at Route: Oral sity: NOAEL: 100 μg/kg
Not classified based on available information.         Components:         4-Chloro-3-methylphenol:         Assessment       : May cause respiratory irritation.         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3 dihydroxycyclopentyl]hept-5-enoate:         Target Organs       : Lungs Assessment         Assessment       : Causes damage to organs.         STOT - repeated exposure 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 dihydroxycyclopentyl]hept-5-enoate:         Target Organs       : Ovary Assessment         Assessment       : Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity       Components:         MOAEL       : 200 mg/kg LOAEL       : 400 mg/kg Application Route         Yopsication Route       : Ingestion Exposure time       : 28 Days         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3 dihydroxycyclopentyl]hept-5-enoate:			: May damag	e fertility.
4-Chloro-3-methylphenol:         Assessment       :       May cause respiratory irritation.         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:         Target Organs       :       Lungs         Assessment       :       Causes damage to organs.         STOT - repeated exposure       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         dihydroxycyclopentyl]hept-5-enoate:       Target Organs       :       Ovary         Assessment       :       Ovary       Assessment       :       Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity       Components:        Components:          4-Chloro-3-methylphenol:       Species       :       Rat         NOAEL       :       200 mg/kg          LOAEL       :       400 mg/kg           Application Route       :       Ingestion           Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3           Species       :       Rat			lable information.	
Assessment       : May cause respiratory irritation.         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:         Target Organs       : Lungs         Assessment       : Causes damage to organs.         STOT - repeated exposure         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         dihydroxycyclopentyl]hept-5-enoate:         Target Organs       : Ovary         Assessment       : Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity       Components:         4-Chloro-3-methylphenol:       Species         Species       : Rat         NOAEL       : 200 mg/kg         LOAEL       : 400 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:	<u>Com</u>	oonents:		
Sodium [1a(Z),2ß(1E,3R*),3a,5a]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3dihydroxycyclopentyl]hept-5-enoate:Target Organs: LungsAssessment: Causes damage to organs.STOT - repeated exposureNot classified based on available information.Components:Sodium [1a(Z),2ß(1E,3R*),3a,5a]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3dihydroxycyclopentyl]hept-5-enoate:Target Organs: OvaryAssessment: Causes damage to organs through prolonged or repeated exposure.Repeated dose toxicityComponents:4-Chloro-3-methylphenol:Species: Rat 400 mg/kg LOAELNOAEL: 200 mg/kg Application RouteLogstionExposure time: 28 DaysSodium [1a(Z),2β(1E,3R*),3a,5a]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3dihydroxycyclopentyl]hept-5-enoate:	4-Chl	oro-3-methylphenol:		
dihydroxycyclopentyl]hept-5-enoate:         Target Organs       : Lungs         Assessment       : Causes damage to organs.         STOT - repeated exposure         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         dihydroxycyclopentyl]hept-5-enoate:         Target Organs       : Ovary         Assessment       : Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity         Components:         4-Chloro-3-methylphenol:         Species       : Rat         NOAEL       : 200 mg/kg         LOAEL       : 400 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:	Asses	ssment	: May cause	respiratory irritation.
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         dihydroxycyclopentyl]hept-5-enoate:         Target Organs       :         Yeare Organs       :         Ovary         Assessment       :         Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity         Components:         4-Chloro-3-methylphenol:         Species       :         Rat         NOAEL       :         200 mg/kg         Application Route       :         Ingestion         Exposure time       :         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:	Targe	et Organs	: Lungs	nage to organs.
Components:         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:         Target Organs       :         Assessment       :         Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity         Components:         4-Chloro-3-methylphenol:         Species       :         Rat         NOAEL       :         200 mg/kg         LOAEL       :         400 mg/kg         Application Route       :         Ingestion         Exposure time       :         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:		• •		
Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:         Target Organs       :         Assessment       :         Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity         Components:         4-Chloro-3-methylphenol:         Species       :         Rat         NOAEL       :         200 mg/kg         LOAEL       :         400 mg/kg         Application Route       :         Ingestion         Exposure time       :         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3			lable information.	
Target Organs       : Ovary         Assessment       : Causes damage to organs through prolonged or repeated exposure.         Repeated dose toxicity         Components:         4-Chloro-3-methylphenol:         Species       : Rat         NOAEL       : 200 mg/kg         LOAEL       : 400 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:	Sodiu	um [1α(Ζ),2β(1E,3R*),		4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3
Components:         4-Chloro-3-methylphenol:         Species       : Rat         NOAEL       : 200 mg/kg         LOAEL       : 400 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:	Targe	et Organs	: Ovary : Causes dar	nage to organs through prolonged or repeated
4-Chloro-3-methylphenol:         Species       : Rat         NOAEL       : 200 mg/kg         LOAEL       : 400 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:	Repe	ated dose toxicity		
Species       : Rat         NOAEL       : 200 mg/kg         LOAEL       : 400 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:	<u>Com</u>	oonents:		
NOAEL       : 200 mg/kg         LOAEL       : 400 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:	4-Chl	oro-3-methylphenol:		
LOAEL : 400 mg/kg Application Route : Ingestion Exposure time : 28 Days Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3 dihydroxycyclopentyl]hept-5-enoate:				
Application Route       :       Ingestion         Exposure time       :       28 Days         Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3         dihydroxycyclopentyl]hept-5-enoate:				
Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3 dihydroxycyclopentyl]hept-5-enoate:	Applic	cation Route	: Ingestion	
dihydroxycyclopentyl]hept-5-enoate:	•		3α,5α]-(+/-)-7-[2-[/	4-(3-chlorophenoxy)-3-hvdroxvbut-1-envl1-3.
Species : Rat	dihyc	lroxycyclopentyl]hep	t-5-enoate:	
	Speci	es	: Rat	
			12	/ 18



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Expo Targe Speci LOAE Applic Expo	EL cation Route sure time et Organs	<ul> <li>0,05 mg/kg</li> <li>0,15 mg/kg</li> <li>Oral</li> <li>3 Months</li> <li>Ovary</li> <li>Rat</li> <li>0,0125 mg/kg</li> <li>Subcutaneous</li> <li>30 Days</li> <li>Ovary</li> </ul>	
Expo	ΞL	: Monkey : 0,05 mg/kg : 0,15 mg/kg : Oral : 3 Months : Heart, Testis	

### Aspiration toxicity

Not classified based on available information.

### **Components:**

Sodium [1α(Z),2β(1E,3R\*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5dihydroxycyclopentyl]hept-5-enoate: Not applicable

### Experience with human exposure

**Components:** 

Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-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



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### **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 EC50 (Daphnia magna (Water flea)): 1,5 mg/l Toxicity to daphnia and other : aquatic invertebrates Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae/aquatic : ErC50 (Chlorella pyrenoidosa (algae)): 15 mg/l plants 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-	:	NOEC: 0,32 mg/l Exposure time: 21 d

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

Species: Daphnia magna (Water flea)

Method: OECD Test Guideline 211

Ecotoxicology Assessment		
Acute aquatic toxicity	:	Toxic effects cannot be excluded
Chronic aquatic toxicity	:	Toxic effects cannot be excluded

#### 12.2 Persistence and degradability

#### **Components:**

ic toxicity)

4-Chloro-3-methylphenol:		
Biodegradability	:	Result: Readily biodegradable. Biodegradation: 78 % Exposure time: 15 d Method: OECD Test Guideline 301



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cumulative potential					
oonents:					
oro-3-methylphenol:					
cumulation	:	Species: Cyprinu Bioconcentration	s carpio (Carp) factor (BCF): 5,5 - 13		
on coefficient: n- ol/water	:	log Pow: 0,477			
l <b>ity in soil</b> ta available					
Its of PBT and vPvB a	sse	ssment			
<u>ict:</u>					
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.			
adverse effects					
<u>ict:</u>					
crine disrupting poten-	:	ered to have end REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at bigher		
	28.09.2024 comulative potential ponents: poro-3-methylphenol: cumulation on coefficient: n- pl/water ity in soil ta available Its of PBT and vPvB a <u>act:</u> ssment r adverse effects <u>act:</u>	28.09.2024       52         cumulative potential       ponents:         ponents:       ponents:         <	28.09.2024       5266464-00012         ccumulative potential       ponents:         ponents:       Species: Cyprinu         Bioconcentration       Bioconcentration         ponents:       log Pow: 0,477         pol/water       ity in soil         ta available       lts of PBT and vPvB assessment         Its of PBT and vPvB assessment       its persistent ar         ponents:       This substance/m         ssment       : This substance/m         adverse effects       its persistent ar         period isrupting poten-       : The substance/m         ered to have ender       REACH Article 53		

13.1 Waste treatment methods	ent methods
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	According to the Eu are not product spe Waste codes shoul discussion with the Do not dispose of v Contaminated packaging : Empty containers s dling site for recycli	should be taken to an approved waste han-
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# **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



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IMDG	3	: Not regulated as a dangerous good	
IATA		: Not regulated as a dangerous good	
	roper shipping name		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG	3	: Not regulated as a dangerous good	
ΙΑΤΑ		: Not regulated as a dangerous good	
14.3 Tran	sport hazard class(e		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG	3	: Not regulated as a dangerous good	
ΙΑΤΑ		: Not regulated as a dangerous good	
14.4 Pack	ing group		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG	3	: Not regulated as a dangerous good	
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good	
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good	
14.5 Envi	ronmental hazards		
Not re	egulated as a dangero	s good	
-	<b>ial precautions for u</b>	er	
14.7 Tran	sport in bulk accordi	g to Annex II of Marpol and the IBC Code	
Rema	arks	: Not applicable for product as supplied.	

### **SECTION 15: Regulatory information**

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

The components of this product are reported in the following inventories:							
AICS	:	not determined					
DSL	:	not determined					



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IECS	С	: not determine	ed
A Chemica	nical safety assessm al Safety Assessment	has not been carried	l out.
SECTION	16: Other informa	tion	
Other	information		changes have been made to the previous version ed in the body of this document by two vertical
Full t	ext of H-Statements		
H302 H314 H317 H318 H334		: May cause and : Causes serio	re skin burns and eye damage. n allergic skin reaction. us eye damage. lergy or asthma symptoms or breathing difficul-
H335 H360 H370 H372	F	: May cause re : May damage : Causes dama	espiratory irritation.
H400 H412		: Very toxic to : Harmful to ac	aquatic life. Juatic life with long lasting effects.
Full t	ext of other abbrevia	tions	
Aquat Eye D Repr.	tic Acute tic Chronic Dam. . Sens. Corr. Sens. ⊺ RE	Long-term (cl     Serious eye c     Reproductive     Respiratory s     Skin corrosio     Skin sensitisa     Specific targe	cute) aquatic hazard hronic) aquatic hazard damage toxicity ensitisation n
Wate Road ing of tion (I of the Europ assoc cy Sc sociat borate Trans rying tional	rways; ADR - Agreer ; AIIC - Australian Inv Materials; bw - Body EC) No 1272/2008; C German Institute for bean Chemicals Agen ciated with x% respon- ted with x% respon- ted with x% growth ra- bry Practice; IARC - I sport Association; IBC Dangerous Chemicals Civil Aviation Organi	nent concerning the entory of Industrial C weight; CLP - Class MR - Carcinogen, M Standardisation; DS cy; EC-Number - Eu se; ELx - Loading ra ing and New Chemic ate response; GHS nternational Agency - International Code s in Bulk; IC50 - Half zation; IECSC - Inve	ernational Carriage of Dangerous Goods by Inland International Carriage of Dangerous Goods by Chemicals; ASTM - American Society for the Test- sification Labelling Packaging Regulation; Regula- lutagen or Reproductive Toxicant; DIN - Standard SL - Domestic Substances List (Canada); ECHA - iropean Community number; ECx - Concentration te associated with x% response; EmS - Emergen- cal Substances (Japan); ErCx - Concentration as- - Globally Harmonized System; GLP - Good La- for Research on Cancer; IATA - International Air for the Construction and Equipment of Ships car- maximal inhibitory concentration; ICAO - Interna- entory of Existing Chemical Substances in China; s; IMO - International Maritime Organization; ISHL



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- 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 : compile the Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, 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.

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