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Section 1: Identification

Product name	:	Cloprostenol (with Propylene Gl	ycol) Formulation	
Manufacturer or supplier's de Company	eta :	ils MSD		
Address	:	33 Whakatiki Street - Private Ba Upper Hutt - New Zealand	g 908	
Telephone	:	0800 800 543		
Emergency telephone number	:	0800 764 766 (0800 POISON) CHEMCALL)	0800 243 622 (0800	
E-mail address	:	EHSDATASTEWARD@msd.com	n	
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable		

Section 2: Hazard identification

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

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

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propylene glycol	57-55-6	>= 10 -< 20
4-Chloro-3-methylphenol	59-50-7	>= 0.1 -< 0.25
Sodium [1α(Z),2β(1E,3R*),3α,5α]-(+/-)-7-[2-[4-	55028-72-3	< 0.1
(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-		
dihydroxycyclopentyl]hept-5-enoate		



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Section 4: First-aid measures If inhaled : If inhaled, remove to fresh air. Get medical attention if symptoms occur. : Wash with water and soap as a precaution. In case of skin contact Get medical attention if symptoms occur. : Flush eyes with water as a precaution. In case of eye contact Get medical attention if irritation develops and persists. If swallowed If swallowed, DO NOT induce vomiting. : Get medical attention if symptoms occur. Rinse mouth thoroughly with water. Most important symptoms : None known. and effects, both acute and delayed Protection of first-aiders No special precautions are necessary for first aid responders. Notes to physician : Treat symptomatically and supportively. Section 5: Fire-fighting measures Suitable extinguishing media : Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Unsuitable extinguishing None known. media Specific hazards during fire-Exposure to combustion products may be a hazard to health. : fighting Hazardous combustion prod- : Carbon oxides ucts Specific extinguishing meth-Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. ods Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do SO Evacuate area. Special protective equipment : Wear self-contained breathing apparatus for firefighting if necfor firefighters essary. Use personal protective equipment.

Section 6: Accidental release measures

Personal precautions, protec- :	Follow safe handling advice (see section 7) and personal pro-
tive equipment and emer-	tective equipment recommendations (see section 8).
gency procedures	



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Enviro	nmental precautions	Prevent Prevent barriers) Retain a Local au	d dispose of contamina	ge if safe to do so. rea (e.g. by containment or oil
Methods and materials for containment and cleaning up		For large ment to be pump Clean u bent. Local or posal of employe mine wh Sections	ep material from sprea d, store recovered materials remaining materials from ational regulations may is material, as well as in the cleanup of relea h regulations are appli	r other appropriate contain- ading. If dyked material can cerial in appropriate container. If with suitable absor- apply to releases and dis- those materials and items uses. You will need to deter- cable. provide information regarding

Section 7: Handling and storage

Local/Total ventilation :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. 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 flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage :	
Materials to avoid :	Do not store with the following product types: Strong oxidizing agents



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Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	WES-TWA (particulate)	10 mg/m3	NZ OEL
		WES-TWA (Vapour and particulates)	150 ppm 474 mg/m3	NZ OEL
4-Chloro-3-methylphenol	59-50-7	TWA	200 µg/m3 (OEB 2)	Internal
		Wipe limit	100 µg/100 cm2	Internal
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	TWA	0.01 ug/m3 (OEB 5)	Internal
	Further information: RSEN, Skin			
		Wipe limit	0.1 ug/100 cm2	Internal

Components with workplace control parameters

Engineering measures :	Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to pre- vent 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 tech- nology designed to prevent leakage of compounds into the workplace.
Personal protective equipmen	t
Respiratory protection:Filter type:Hand protection	sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Material :	Chemical-resistant gloves
Remarks : Eye protection :	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.



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Skin	and body protection	potential for dir aerosols. : Work uniform of Additional body task being perfo posable suits) t	y garments should be used based upon the ormed (e.g., sleevelets, apron, gauntlets, dis- o avoid exposed skin surfaces. e degowning techniques to remove potentially

Section 9: Physical and chemical properties

Appearance	:	Aqueous solution
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	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
Flammability (liquids)	:	No data available
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	:	soluble



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Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	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.
Molecular weight	:	No data available
Particle characteristics Particle size	:	Not applicable

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Not classified based on ava	ailable	information.
Components:		
Propylene glycol: Acute oral toxicity	:	LD50 (Rat): 22,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
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ersion 2	Revision Date: 28.09.2024	-	0S Number: 66461-00010	Date of last issue: 30.09.2023 Date of first issue: 14.11.2019
			Assessment: The toxicity	substance or mixture has no acute derma
4-Chl	oro-3-methylphenol:			
Acute	oral toxicity	:	LD50 (Mouse): 60)0 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2.8 Exposure time: 4 Test atmosphere:	h
Acute	dermal toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
	ım [1α(Z),2β(1E,3R*),3c roxycyclopentyl]hept-{			hlorophenoxy)-3-hydroxybut-1-enyl]-3,5
Acute	oral toxicity	:	LD50 (Rat): > 25 Remarks: No mor	mg/kg tality observed at this dose.
	toxicity (other routes of istration)	:	LD50 (Rat): > 50 Application Route	
			LD50 (Rat): > 50 Application Route	
			LD50 (Rat): 5 mg Application Route Remarks: No mor	
			LD50 (Mouse): 38 Application Route	
			LD50 (Mouse): 54 Application Route	
			Application Route Target Organs: Lu	
			TDLo (Monkey): (Application Route Target Organs: or	: Intramuscular
	corrosion/irritation	6 1-	information	
	assified based on availa conents:	BIG	information.	

Propylene glycol:

Species

: Rabbit



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Metho Resul		: OECD Test Gui : No skin irritatior	
4-Chl	oro-3-methylphenol	:	
Speci Metho Resul	bd	: Rabbit : OECD Test Gui : Corrosive after	ideline 404 1 to 4 hours of exposure
	ım [1α(Z),2β(1E,3R*) Iroxycyclopentyl]he		-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5
Rema		. Not classified d	ue to lack of data. ed through skin.
	us eye damage/eye assified based on ava		
<u>Com</u>	oonents:		
Propy	/lene glycol:		
Speci Resul Metho	t	: Rabbit : No eye irritation : OECD Test Gui	
4-Chl	oro-3-methylphenol	:	
Speci Resul Metho	t	: Rabbit : Irreversible effe : OECD Test Gui	
	ım [1α(Z),2β(1E,3R*) Iroxycyclopentyl]he		-chlorophenoxy)-3-hydroxybut-1-enyl]-3,
Rema			ue to lack of data.
Resp	iratory or skin sensi	tisation	
	sensitisation assified based on ava	ailable information.	
-	iratory sensitisation assified based on ava		
<u>Comp</u>	oonents:		
Propy	/lene glycol:		
Test T Expos Speci Resul	sure routes es	: Maximisation To : Skin contact : Guinea pig : negative	est



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	oro-3-methylphenol	: : Maximisatio	n Toot
Test Expos Speci	sure routes	: Skin contac : Guinea pig	
Asses	ssment	: Probability or rate in huma	or evidence of low to moderate skin sensitisation ans
	um [1α(Ζ),2β(1E,3R*) Iroxycyclopentyl]he		l-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5
Resu	lt	: Sensitiser	
Chro	nic toxicity		
	a cell mutagenicity lassified based on ava	ailable information.	
<u>Com</u>	oonents:		
Prop	ylene glycol:		
Geno	toxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative
			Chromosome aberration test in vitro CD Test Guideline 473 ative
Geno	toxicity in vivo	cytogenetic Species: Mo	ouse Route: Intraperitoneal injection
4-Chl	oro-3-methylphenol	:	
Geno	toxicity in vitro	: Test Type: Result: nega	Bacterial reverse mutation assay (AMES) ative
	um [1α(Z),2β(1E,3R*) Iroxycyclopentyl]he		l-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5
Geno	toxicity in vitro	: Test Type: Result: nega	Bacterial reverse mutation assay (AMES) ative
			n vitro mammalian cell gene mutation test : mouse lymphoma cells ative
		Test Type: (Chromosomal aberration



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		Result: equi	vocal
Geno	toxicity in vivo	Species: Mc Cell type: Bc	one marrow Route: Intraperitoneal
	nogenicity lassified based on avai	lable information.	
Com	oonents:		
Prop	ylene glycol:		
	cation Route sure time	: Rat : Ingestion : 2 Years : negative	
			l-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3
dihyc Rema Repre	Iroxycyclopentyl]hep	t-5-enoate: : Not classifie	I-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3 d due to lack of data.
dihyc Rema Repro Not cl	Iroxycyclopentyl]hep arks oductive toxicity	t-5-enoate: : Not classifie	
dihyc Rema Repro Not cl <u>Comp</u> Propy	Iroxycyclopentyl]hep arks oductive toxicity lassified based on avai	t-5-enoate: : Not classifie lable information. : Test Type: 1 Species: Mo	d due to lack of data. Two-generation reproduction toxicity study buse Route: Ingestion
dihyo Rema Not cl <u>Comj</u> Propy Effect	Iroxycyclopentyl]hep arks oductive toxicity lassified based on avai <u>conents:</u> ylene glycol:	t-5-enoate: : Not classifie lable information. : Test Type: 1 Species: Mo Application I Result: nega : Test Type: E Species: Mo	d due to lack of data. Two-generation reproduction toxicity study buse Route: Ingestion ative Embryo-foetal development buse Route: Ingestion
dihyc Rema Repro Not cl <u>Comp</u> Effect Effect ment	Iroxycyclopentyl]hep arks oductive toxicity lassified based on avai <u>conents:</u> ylene glycol: is on fertility	t-5-enoate: : Not classifie ilable information. : Test Type: 1 Species: Mo Application 1 Result: nega : Test Type: E Species: Mo Application 1	d due to lack of data. Two-generation reproduction toxicity study buse Route: Ingestion ative Embryo-foetal development buse Route: Ingestion
dihyc Rema Repro Not cl Comp Effect Effect ment	Iroxycyclopentyl]hep arks oductive toxicity lassified based on avai <u>ponents:</u> ylene glycol: is on fertility	t-5-enoate: : Not classifie ilable information. : Test Type: T Species: Mo Application I Result: nega : Test Type: E Species: Mo Application I Result: nega : Test Type: C Species: Ra	d due to lack of data. Two-generation reproduction toxicity study buse Route: Ingestion ative Embryo-foetal development buse Route: Ingestion ative Dne-generation reproduction toxicity study t Route: Ingestion



rsion	Revision Date: 28.09.2024		OS Number: 66461-00010	Date of last issue: 30.09.2023 Date of first issue: 14.11.2019
			Result: negative)
	m [1α(Z),2β(1E,3R*),3 roxycyclopentyl]hept			chlorophenoxy)-3-hydroxybut-1-enyl]-
Effects	s on fertility	:	Species: Rat Application Rou General Toxicity Fertility: NOAEL	e-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
Effects ment	s on foetal develop-	:		te: Subcutaneous NOAEL: 0.250 μg/kg
			Test Type: Deve Species: Rat Application Rou Teratogenicity: I Result: No terat	te: Oral NOAEL: 100 μg/kg
Repro- sessm	ductive toxicity - As- ient	:	May damage fe	rtility.
	- single exposure assified based on avail	able	information.	
<u>Comp</u>	onents:			
4-Chlo Asses	oro-3-methylphenol: sment	:	May cause resp	iratory irritation.
Sodiu	m [1α(Ζ),2β(1E,3R*),3		ı]-(+/-)-7-[2-[4-(3-	chlorophenoxy)-3-hydroxybut-1-enyl]-
Target	roxycyclopentyl]hept t Organs sment		Lungs Causes damage	to organs

Not classified based on available information.



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Components:

Exposure time Target Organs

Sodium [1α(Z),2β(1E,3 dihydroxycyclopentyl]	R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5- nept-5-enoate:
Target Organs Assessment	 Ovary Causes damage to organs through prolonged or repeated exposure.
Repeated dose toxicity	
Components:	
Propylene glycol:	
Species NOAEL Application Route Exposure time	 Rat, male >= 1,700 mg/kg Ingestion 2 yr
4-Chloro-3-methylphen	ol:
Species NOAEL LOAEL Application Route Exposure time	 Rat 200 mg/kg 400 mg/kg Ingestion 28 Days
Sodium [1α(Ζ),2β(1Ε,3β dihydroxycyclopentyl]l	R*),3α,5α]-(+/-)-7-[2-[4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5- hept-5-enoate:
Species NOAEL LOAEL Application Route Exposure time Target Organs	 Rat 0.05 mg/kg 0.15 mg/kg Oral 3 Months Ovary
Species LOAEL Application Route Exposure time Target Organs	: Rat : 0.0125 mg/kg : Subcutaneous : 30 Days : Ovary
Species NOAEL LOAEL Application Route	: Monkey : 0.05 mg/kg : 0.15 mg/kg : Oral

: 3 Months : Heart, Testis



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Aspiration toxicity

Not classified based on available information.

Components:

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

Experience with human exposure

Components:

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

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

Ecotoxicity		
Components:		
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 Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l Exposure time: 7 d



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	ic toxici Toxicity	ty) to microorganisms	:	NOEC (Pseudom Exposure time: 18	onas putida): > 20,000 mg/l 3 h
	4-Chlor Toxicity	r o-3-methylphenol: to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 917 µg/l } h
		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
	Toxicity plants	to algae/aquatic	:	ErC50 (Chlorella) Exposure time: 72 Method: OECD To	
				EC10 (Chlorella p Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	1	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To	
	Toxicity	to microorganisms	:	EC50: 22.86 mg/l Exposure time: 60) h

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
Persistence and degradability	ty	
Components:		
Propylene glycol:		
Biodegradability	:	Result: Readily biodegradable. Biodegradation: 98.3 % Exposure time: 28 d Method: OECD Test Guideline 301F
4-Chloro-3-methylphenol:		
Biodegradability	:	Result: Readily biodegradable.
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			Biodegradation: Exposure time: 1 Method: OECD T	
Bioad	ccumulative potential			
Com	ponents:			
Partit	ylene glycol: ion coefficient: n- ol/water	:	log Pow: -1.07 Method: Regulati	on (EC) No. 440/2008, Annex, A.8
4-Chl	oro-3-methylphenol:			
Bioac	cumulation	:	Species: Cyprinu Bioconcentration	s carpio (Carp) factor (BCF): 5.5 - 13
	ion coefficient: n- ol/water	:	log Pow: 0.477	
Mobi	lity in soil			
No da	ata available			
	r adverse effects			
No da	ata available			

Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
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

International Regulations

UNRTDG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable



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Pack Labe Pack aircra Pack	idiary risk ing group Is ing instruction (cargo	: Not ap : Not ap : Not ap : Not ap	plicable plicable plicable plicable plicable	
UN n Prop Class Subs Pack Labe EmS	idiary risk ing group	 Not ap 	plicable plicable plicable plicable plicable plicable plicable	

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

Not applicable for product as supplied.

National Regulations

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable

Section 15: Regulatory information

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

HSNO Approval Number

Not applicable

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL) Not applicable

HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required.



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Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

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

Section 16: Other information

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	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 Agen- cy, http://echa.europa.eu/		
	Date format	:	dd.mm.yyyy		
Full text of other abbreviations					
	NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants		
			Martin Lana Frances and Other density Times Mainthead events and		

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evalua-



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tion, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only 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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