

Dinoprost Formulation

Version 3.1	Revision Date: 30.09.2023		S Number: 15386-00009	Date of last issue: 04.04.2023 Date of first issue: 04.11.2019	
Section 1	I: Identification				
Prod	uct name	:	Dinoprost Forr	mulation	
Man	ufacturer or supplier's d	leta	ils		
Com	pany	:	MSD		
Addr	ess	:	33 Whakatiki S Upper Hutt - N	Street - Private Bag 908 New Zealand	
Tele	phone	:	0800 800 543		
Eme	rgency telephone number	· :	0800 764 766 CHEMCALL)	(0800 POISON) 0800 243 622 (0800	
E-ma	ail address	:	EHSDATASTE	EWARD@msd.com	
Reco	ommended use of the cl	hem	ical and restric	ctions on use	
	ommended use	:	Veterinary pro		
Rest	rictions on use	:	Not applicable)	
Section 2	2: Hazard identification				
GHS	Classification				
Repr	oductive toxicity	:	Category 1		
GHS	label elements				
Haza	ard pictograms	:			
Sign	al word	:	Danger		
Haza	ard statements	:	H360D May da	amage the unborn child.	
Prec	autionary statements	:	Prevention:		
				special instructions before use. otective gloves/ protective clothing/ eye pro ection.	otec [.]
			_		

Response:

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

Storage:



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P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification None known.

Section 3: Composition/information on ingredients

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Dinoprost	551-11-1	>= 0.1 -< 1

Section 4: First-aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May damage the unborn child.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
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



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Unsuitable extinguishing media Specific hazards during fire- fighting Hazardous combustion prod- ucts Specific extinguishing meth- ods		: : :	None known. Exposure to combustion products may be a hazard to health. Carbon oxides Metal oxides 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. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.			
	: Accidental release me	as	· ·			
tive e	onal precautions, protec- quipment and emer- / procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro recommendations (see section 8).		
Enviro	onmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or c se of contaminated wash water. should be advised if significant spillages		
	ods and materials for inment and cleaning up	:	For large spills, pu ment to keep mat be pumped, store Clean up remainin bent. Local or national up posal of this mate employed in the of mine which regula Sections 13 and 1	a absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate containe ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.		

Section 7: Handling and storage

Technical measures	See Engineering measures und CONTROLS/PERSONAL PRO	
Local/Total ventilation	If sufficient ventilation is unavai ventilation.	
Advice on safe handling	Do not get on skin or clothing. Do not breathe vapours or spra Do not swallow.	y mist.



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ł	Hygien	e measures	Ha pra se Ke Ta en : If e flu pla Wi Wi Wi Wi ap ap ind	actice, based o ssment ep container tig ke care to prev vironment. exposure to che shing systems ace. nen using do no ash contaminat e effective ope gineering contr propriate dego	ance with good industrial hygiene and safety in the results of the workplace exposure as- ghtly closed. ent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the
(Conditi	ons for safe storage	: Ke Ste		abelled containers.
ſ	Materia	als to avoid	Sto : Do	ore in accordan	ce with the particular national regulations. the following product types:

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Dinoprost	551-11-1	TWA	0.1 μg/m3 (OEB 5)	Internal
		Wipe limit	1 µg/100 cm2	Internal

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 equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the rec-



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Filter type Hand protection	ommended guidelines, use respiratory protection. : Particulates type			
Material	Chemical-resistant gloves			
Remarks Eye protection Skin and body 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. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. 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 			

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	6.5 - 7.5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
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



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F	Relative	e vapour density	:	No data available	9
F	Relative density		:	1.0 - 1.02	
[Density		:	No data available	9
S	Solubili Wat	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	/water nition temperature	:	No data available	9
[Decom	position temperature	:	No data available	9
١	Viscosi Visc	ty osity, kinematic	:	No data available	9
E	Explosi	ve properties	:	Not explosive	
		ng properties lar weight	:	The substance o	r mixture is not classified as oxidizing.
F	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 available information.

Components:

Dinoprost:



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Acute	oral toxicity	:	LD50 (Rat): 1,170	mg/kg
			LD50 (Mouse): 1,3	300 mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 106 n Application Route	
			LD50 (Rat): 112 n Application Route	
			LD50 (Rat): 95 mg Application Route	
			LD50 (Mouse): 56 Application Route	
			LD50 (Mouse): 15 Application Route	
			LD50 (Mouse): 21 Application Route	
			LD50 (Rabbit): 2.8 Application Route	
			LD50 (Rabbit): > ² Application Route	
	corrosion/irritation assified based on availa	ble	information.	
	us eye damage/eye irri assified based on availa			
Comp	onents:			
Dinop	prost:			
Specie Result		:	Rabbit Eye irritation	
	ratory or skin sensitis	: atio		

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.



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Chroi	nic toxicity			
	-			
	cell mutagenicity assified based on ava	ailable	information	
	oonents:	anabio		
Dinop Genot	toxicity in vitro	:	Test Type: Mic Result: negativ	robial mutagenesis assay (Ames test) e
				omosomal aberration hinese hamster fibroblasts e
	nogenicity assified based on ava	ailable	information.	
	oductive toxicity			
-	lamage the unborn ch	nild.		
Comp	oonents:			
Dinop	prost:			
-	s on foetal develop-	:	Species: Rat Application Ro	roductive and developmental toxicity study ute: Subcutaneous toxicity: LOAEL: 12.5 μg/kg tal mortality
Repro sessn	oductive toxicity - As- nent	:		ce of adverse effects on development from iological studies.
	- single exposure			
	assified based on ava	ailable	information.	
<u>Comp</u>	oonents:			
Dinop				
Asses	ssment	:	May cause dar	nage to organs.
STOT	- repeated exposur	e		
	assified based on ava		information.	
<u>Comp</u>	oonents:			
Dinop	prost:			
	sment	:	May cause dar	nage to organs through prolonged or repea



toxicity : : e	Monkey 0.5 mg/l	
:		
: : e :		
: : e :		
: : e :		
:	ocular 2 Weeks	
e :	Monkey 8 mg/kg Oral 90 d No specific targe	et organs noted
e :	Rat 32 mg/kg Subcutaneous 6 d Gastrointestinal Diarrhoea, ment	
e :	Monkey 15 mg/kg Intravenous 4 Weeks Immune system immune system	
sitv		
•	e information.	
		: Eye : Monkey : 8 mg/kg : 0ral : 90 d : No specific targe : Rat : 32 mg/kg : Subcutaneous : 6 d : Gastrointestinal : Diarrhoea, ment : Monkey : 15 mg/kg : Intravenous : 4 Weeks : Immune system : immune system

Components:

Dinoprost:

General Information :	miscarriage Target Organs: Uterus (including cervix) Symptoms: Effects on prenatal and postnatal growth. Target Organs: Gastro-intestinal system Symptoms: Nausea, Vomiting Target Organs: Cardio-vascular system Symptoms: hypertension
Inhalation :	Target Organs: Lungs Symptoms: bronchospasm, bronchoconstriction
Eye contact :	Target Organs: Eyes Symptoms: Lowered blood pressure



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Section 1	2: Ecological inform	ation	
Ecoto	oxicity		
Com	ponents:		
Dino	prost:		
Ecoto	oxicology Assessme	ent	
Acute	e aquatic toxicity	: Toxic effects ca	annot be excluded
Chror	nic aquatic toxicity	: Toxic effects ca	annot be excluded
	stence and degrada	bility	
	ccumulative potentia ata available	al	
	lity in soil ata available		
	r adverse effects ata available		

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 Proper shipping name Class Subsidiary risk Packing group Labels	 Not applicable 	
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable 	



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	ng instruction (cargo	:	Not applicable Not applicable	
aircraf Packir ger air	ng instruction (passen-	:	Not applicable	
UN nu Prope Class Subsid Packir Labels EmS (r shipping name diary risk ng group	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	

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

Not applicable for product as supplied.

National Regulations

NZS 5433		
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

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

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

AICS	:	not determined
DSL	:	not determined

IECSC : not determined



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Section 16: Other information

Revision Date	:	30.09.2023
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

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, Evaluation, 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.





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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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