

Ramipril Formulation

Version 3.0	Revision Date: 06.04.2024		S Number: 7207-00012	Date of last issue: 30.09.2023 Date of first issue: 11.10.2018
Section 1	: Identification			
Prod	uct identifier	:	Ramipril Formula	ition
Reco	ommended use of the cl	nem	ical and restriction	ons on use
	mmended use rictions on use	:	Veterinary produ Not applicable	ct
Manu	ufacturer or supplier's d	letai	ls	
Com	pany	:	MSD	
Addro	ess	:	50 Tuas West Dr Singapore - Sing	-
Telep	phone	:	+1-908-740-4000)
Emer	rgency telephone number	• :	65 6697 2111 (24	4/7/365)
E-ma	il address	:	EHSDATASTEW	/ARD@msd.com
Section 2	: Hazard identification			
Class	sification of the substar	nce	or mixture	
	sensitisation	:	Category 1	
Repr	oductive toxicity	:	Category 1A	

Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Kidney)

GHS Label elements, including precautionary statements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction. H360D May damage the unborn child. H373 May cause damage to organs (Kidney) through pro- longed or repeated exposure if swallowed.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read



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		the workplace. P280 Wear pro	reathe dust. nated work clothing should not be allowed out of
		P308 + P313 I attention. P333 + P313 I vice/ attention.	F ON SKIN: Wash with plenty of water. F exposed or concerned: Get medical advice/ f skin irritation or rash occurs: Get medical ad- Take off contaminated clothing and wash it before
		Storage: P405 Store loc	sked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 10 %

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Starch	9005-25-8	>= 30 -< 50
Cellulose	9004-34-6	>= 30 -< 50
Ramipril	87333-19-5	>= 10 -< 20
Hydrolyzed Vegetable Protein	Not Assigned	>= 1 -< 10
Natural Pork Flavor	Not Assigned	>= 1 -< 10
Hydrogenated Vegetable Oil	Not Assigned	>= 1 -< 10

Section 4: First-aid measures

Description of necessary first-aid measures

General advice

: In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical



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lf inha In cas	aled se of skin contact	Get medica In case of of water. Remove co	remove to fresh air. al attention. contact, immediately flush skin with soap and plenty pottaminated clothing and shoes.
	se of eye contact	Wash cloth Thoroughly If in eyes, i Get medica If swallowe Get medica	al attention. ing before reuse. v clean shoes before reuse. inse well with water. al attention if irritation develops and persists. id, DO NOT induce vomiting. al attention. th thoroughly with water.
Most	important symptoms	and effects, bot	h acute and delayed
Risks Prote	ction of first-aiders	May dama May cause exposure in Contact wi the skin. Dust conta : First Aid re and use th	an allergic skin reaction. ge the unborn child. damage to organs through prolonged or repeated swallowed. th dust can cause mechanical irritation or drying of ct with the eyes can lead to mechanical irritation. sponders should pay attention to self-protection, e recommended personal protective equipment otential for exposure exists (see section 8).
Indica	ation of any immediat	e medical attent	ion and special treatment needed
Treat	ment	: Treat symp	otomatically and supportively.
Section 5	Fire-fighting measur	es	
-	guishing media ole extinguishing media	Alcohol-res Carbon dic	sistant foam xide (CO2)
Unsui media	itable extinguishing	Dry chemic : None know	

Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides

Special protective actions for fire-fighters

Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.
for firefighters		Use personal protective equipment.



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Speci ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. Iged containers from fire area if it is safe to do
Section 6	: Accidental release m	eas	ures	
	precautions, protectiv onal precautions	e ec :	Use personal pro Follow safe hand	ergency procedures tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).
	ental precautions onmental precautions	:	Retain and dispo	eakage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	and materials for conta ods for cleaning up	ainn :	Sweep up or vac tainer for disposa Avoid dispersal of with compressed Dust deposits sh es, as these may leased into the a Local or national posal of this mate employed in the mine which regul Sections 13 and	uum up spillage and collect in suitable con- ll. f dust in the air (i.e., clearing dust surfaces
Section 7	: Handling and storage	e		
Techi Local	autions for safe handli nical measures /Total ventilation e on safe handling	ng :	causing an explo Provide adequate and bonding, or i If sufficient ventil ventilation. Do not get on ski Do not breathe d Do not swallow. Avoid contact with Handle in accord	e precautions, such as electrical grounding nert atmospheres. ation is unavailable, use with local exhaust n or clothing. ust.



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Hygi	iene measures	Keep container Keep away fror Take precautio Take care to pr environment. If exposure to c flushing system place. When using do Contaminated w workplace. Wash contamir The effective of engineering con appropriate deg	generation and accumulation. closed when not in use. n heat and sources of ignition. nary measures against static discharges. event spills, waste and minimize release to the chemical is likely during typical use, provide eye as and safety showers close to the working not eat, drink or smoke. work clothing should not be allowed out of the hated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the
Con	ditions for safe storage	ge, including any inc	ompatibilities
	ditions for safe storage erials to avoid	Store locked up Keep tightly clo Store in accord	sed. ance with the particular national regulations. th the following product types:

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Starch	9005-25-8	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Cellulose	9004-34-6	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Ramipril	87333-19-5	TWA	3 µg/m3 (OEB 4)	Internal
		Wipe limit	30 µg/100cm2	Internal

Appropriate engineering control measures

: Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying



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		stationary co All engineerir design and o protect produ Essentially no	d system, packout head with inflatable seal from ntainer, ventilated enclosure, etc.). ng controls should be implemented by facility perated in accordance with GMP principles to lots, workers, and the environment. o open handling permitted. rocessing systems or containment technologies
Indivi	dual protection mea	sures, such as per	sonal protective equipment (PPE)
Eye/fa	ace protection	If the work er mists or aero Wear a faces	glasses with side shields or goggles. Invironment or activity involves dusty conditions, sols, wear the appropriate goggles. Ishield or other full face protection if there is a direct contact to the face with dusts, mists, or
Skin p	protection	: Work uniform Additional bo task being pe posable suits	n or laboratory coat. dy garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis-) to avoid exposed skin surfaces. ate degowning techniques to remove potentially t clothing
Respi	ratory protection	: If adequate lo sure assessn	ocal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- uidelines, use respiratory protection.
	er type protection	: Particulates t	
Ма	aterial	: Chemical-res	istant gloves
Re	marks	: Consider dou	ible gloving.
Section 9:	Physical and chem	ical properties	
Appea	arance	: powder	

Appearance	·	powder
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable



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	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle Particle	e characteristics e size	:	No data available	3

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.



ersion .0	Revision Date: 06.04.2024		0S Number: 17207-00012	Date of last issue: 30.09.2023 Date of first issue: 11.10.2018
	npatible materials rdous decomposition ucts	:	Oxidizing agent No hazardous c	s lecomposition products are known.
ection 1	1: Toxicological inform	atio	on	
Inforr expo	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
Not c	e toxicity lassified based on availa ponents:	ble	information.	
Stard	ch:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,0	000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
Cellu	llose:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.3 Exposure time: 4 Test atmosphere	↓h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
Ram	ipril:			
Acute	e oral toxicity	:	LD50 (Rat): > 10),000 mg/kg
			LD50 (Dog): > 1	,000 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Dog): > 2 Application Rout	
			LD50 (Rat): 600 Application Rout	
	corrosion/irritation	hla	information	
	ous eye damage/eye irri			
	lassified based on availa			
<u>Com</u>	ponents:			
Stard	ch:			
Spec Resu	ies	:	Rabbit No eye irritation	



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Resp	iratory or skin sens	itisation	
	sensitisation cause an allergic skin	reaction.	
-	iratory sensitisatior lassified based on av		
<u>Com</u>	ponents:		
Starc Test Expos Speci Resu	Type sure routes es	: Maximisation : Skin contact : Guinea pig : negative	Test
Notu	al Pork Flavor:		
Asses		: The product is	a skin sensitiser, sub-category 1B.
Starc Geno	h: toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
Cellu	lose:		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
Geno	toxicity in vivo	cytogenetic as Species: Mou	se Dute: Ingestion
 Rami	pril:		
	pril: toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
	-	Result: negati	ve scheduled DNA synthesis assay



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Ι		Test system: Result: negat	Chinese hamster ovary cells ive
Geno	toxicity in vivo	: Test Type: M Species: mice Result: negat	
Carci	inogenicity		
Not c	lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
Cellu	lose:		
Spec Appli	ies cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Rami	pril:		
Speci Appli	ies cation Route sure time EL	: Rat : Oral : 24 month(s) : 500 mg/kg bo : negative	ody weight
	cation Route sure time EL	: Rat : Oral : 18 month(s) : 1,000 mg/kg : negative	body weight
Dawa			
-	oductive toxicity damage the unborn ch	ild	
-	ponents:	na.	
	l ose: ts on fertility	Species: Rat	ne-generation reproduction toxicity study oute: Ingestion ive
Effec ment	ts on foetal develop-	Species: Rat	ertility/early embryonic development oute: Ingestion ive
II Rami	nril-		
	ts on fertility	: Test Type: Fe Species: Rat	ertility



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ersion)	Revision Date: 06.04.2024	-	OS Number: 17207-00012	Date of last issue: 30.09.2023 Date of first issue: 11.10.2018
			Application Rou Fertility: NOAEL Result: No adve	.: 500 mg/kg body weight
Effect ment	ts on foetal develop-	:	Species: Rat Application Rou Developmental	
				y .
				y .
Repro sessn	oductive toxicity - As- nent	:	May damage the	e unborn child.
STOT	۲ - single exposure			
	lassified based on avail	lable	information.	
STOT	- repeated exposure			
			dney) through pro	blonged or repeated exposure if swallow
<u>Com</u>	ponents:			

Ramipril:

Exposure routes : Oral



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	et Organs ssment	: Kidney : May cause dam exposure.	age to organs through prolonged or repeate
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Starc	h:		
	EL cation Route sure time	: Rat : >= 2,000 mg/kg : Skin contact : 28 Days : OECD Test Gui	deline 410
Cellu	lose:		
		: Rat : >= 9,000 mg/kg : Ingestion : 90 Days	
Rami	pril:		
	L cation Route tt Organs	: Mouse : 100 mg/kg : Oral : Blood, Kidney : kidney effects	
Speci NOAE Applic	es EL cation Route	: Rat : 2 mg/kg : Oral	
Speci NOAE LOAE Applic Targe Symp	EL EL cation Route et Organs	: Dog : 2.5 mg/kg : 250 mg/kg : Oral : Blood, Kidney : kidney effects	
	EL EL cation Route et Organs	: Monkey : 8 mg/kg : 250 mg/kg : Oral : Blood, Kidney : kidney effects	

Not classified based on available information.



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Expe	rience with human ex	posi	ire		
Comp	oonents:				
Rami	pril:				
Inges	tion	:		gic reactions, Kidney disorders, liver functio Cough, Dizziness, Nausea, Headache, Vomi	
ction 12	2: Ecological informat	ion			
Toxic	ity				
Comp	oonents:				
Cellu	lose:				
Toxici	ity to fish	:	Exposure time: 4	atipes (Japanese medaka)): > 100 mg/l 48 h d on data from similar materials	
Rami	pril:				
Toxici	ity to fish	:	Exposure time: 9	nio rerio (zebrafish)): > 100 mg/l 96 h Test Guideline 203	
	ity to daphnia and other ic invertebrates	r :	Exposure time: 4	magna (Water flea)): > 100 mg/l 48 h Test Guideline 202	
Toxici plants	ity to algae/aquatic	:	 EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 		
Hydro	olyzed Vegetable Prot	ein:			
Ecoto	oxicology Assessmen	t			
Acute	aquatic toxicity	:	Toxic effects car	nnot be excluded	
Chror	nic aquatic toxicity	:	Toxic effects car	nnot be excluded	
Natur	al Pork Flavor:				
	oxicology Assessmen aquatic toxicity	t	Toxic effects car	nnot be excluded	
	nic aquatic toxicity	:		nnot be excluded	
	and a second to hold by	•			



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-	ogenated Vegetable		
	oxicology Assessme		
Acute	e aquatic toxicity	: Toxic effects ca	nnot be excluded
Chror	nic aquatic toxicity	: Toxic effects ca	nnot be excluded
Persi	stence and degrada	bility	
Com	ponents:		
Cellu	lose:		
Biode	l lose: egradability	: Result: Readily	biodegradable.
Rami			
Biode	egradability	Biodegradation Exposure time:	
Bioa	ccumulative potentia	al	
No da	ata available		
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	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

:	Not applicable
:	Not applicable
:	no
	: : : : : : : : : : : : : : : : : : : :



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IATA-DGR

UN/ID No.	:	Not applicable
UN proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passen- ger aircraft)	:	Not applicable
ger ancian)		
IMDG-Code		
o ,	:	Not applicable
IMDG-Code	:	Not applicable Not applicable
IMDG-Code UN number		
IMDG-Code UN number UN proper shipping name		Not applicable
IMDG-Code UN number UN proper shipping name Class		Not applicable Not applicable
IMDG-Code UN number UN proper shipping name Class Subsidiary risk		Not applicable Not applicable Not applicable
IMDG-Code UN number UN proper shipping name Class Subsidiary risk Packing group	:	Not applicable Not applicable Not applicable Not applicable

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

Not applicable

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazard-

ous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

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		•	00.01.2021	
Sourc	es of key data used to ile the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
	where changes have be nent by two vertical lines		made to the previo	us version are highlighted in the body of this
Date	format	:	dd.mm.yyyy	
Full text of other abbreviations				
ACGI SG O		:	Singapore. Workp	eshold Limit Values (TLV) blace Safety and Health (General Provisions) t Schedule Permissible Exposure Limits of s.
	H / TWA EL / PEL (long term)	:	8-hour, time-weig Permissible Expo	hted average sure Level (PEL) Long Term

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



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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SG / EN