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ssification in accor tive toxicity arget organ toxicity	rdar :	nce with the Haza Category 1A	
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el elements			
ctograms		^	
otograms	•		
ord	:	Danger	
tatements		H360D May dan	nage the unborn child.
	•		e damage to organs (Kidney) through prolong
			osure if swallowed.
narv Statements	:		
,			
		P201 Obtain spe	ecial instructions before use. ndle until all safety precautions have been rea
		P260 Do not bre	
		P280 Wear prot and face protect	ective gloves, protective clothing, eye protect tion.
		Response:	
		P308 + P313 IF	exposed or concerned: Get medical attention
		Storage:	
		P405 Store lock	
	nary Statements	nary Statements :	or repeated exp nary Statements : P201 Obtain sp P202 Do not ha and understood P260 Do not bro P280 Wear prot and face protec Response: P308 + P313 IF



Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2022
3.9	04/09/2022	50010-00021	Date of first issue: 01/26/2015

Disposal:

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

Other hazards

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

	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Starch	Sago starch	9005-25-8	>= 10 - < 30 *
Lisinopril	No data availa- ble	83915-83-7	>= 5 - < 10 *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. 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 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	:	If in eyes, rinse well with water. 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. May cause damage to organs through prolonged or repeated exposure if swallowed. Contact with dust can cause mechanical irritation or drying of
Protection of first-aiders	:	the skin. Dust contact with the eyes can lead to mechanical irritation. 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



Lisinopril Formulation

Ver 3.9	sion	Revision Date: 04/09/2022		9S Number: 010-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015		
	Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire fighting Hazardous combustion prod- ucts		:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
			:	None known.			
			:	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			
			:	Carbon oxides Metal oxides Oxides of phosph	orus		
	Specifi ods	ic extinguishing meth-	:	cumstances and to Use water spray to	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do		
	•	ll protective equipment fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disp osal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust
		causing an explosion.



Lisinopril Formulation

Version 3.9	Revision Date: 04/09/2022	SDS Number: 50010-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015			
	l/Total ventilation ce on safe handling	 and bonding. If sufficient viventilation. Do not get or Do not breatl Do not swalle Avoid contact Handle in accorrection, bas assessment Keep contain Keep contain Keep away fur Take precaut Take care to 	bw. t with eyes. cordance with good industrial hygiene and safety ed on the results of the workplace exposure her tightly closed. t generation and accumulation. her closed when not in use. rom heat and sources of ignition. ionary measures against static discharges. prevent spills, waste and minimize release to the			
Conc	litions for safe storage	Store locked Keep tightly o	Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.			
Mate	rials to avoid	: Do not store Strong oxidiz	with the following product types: ing agents substances and mixtures			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

ingredients with workplace control parameters								
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis				
Starch	9005-25-8	TWA	10 mg/m ³	CA AB OEL				
		TWA (Total dust)	10 mg/m ³	CA BC OEL				
		TWA (respir- able dust fraction)	3 mg/m³	CA BC OEL				
		TWAEV (to- tal dust)	10 mg/m ³	CA QC OEL				
		TWA	10 mg/m ³	ACGIH				
Lisinopril	83915-83-7	TWA	4 µg/m3 (OEB 4)	Internal				
		Wipe limit	40 µg/100 cm²	Internal				

Ingredients with workplace control parameters

Engineering measures

Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the



ersion	Revision Date: 04/09/2022	SDS Number: 50010-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015
		If sufficient ventilation. Dust forma product. In limitations workplaces assessme Particulate dust, 5 mg Particles (i	ation may be relevant in the processing of this addition to substance-specific OELs, general of concentrations of particulates in the air at s have to be considered in workplace risk nt. Relevant limits include: OSHA PEL for s Not Otherwise Regulated of 15 mg/m3 - total /m3 - respirable fraction; and ACGIH TWA for nsoluble or poorly soluble) Not Otherwise of 3 mg/m3 - respirable particles, 10 mg/m3 -
Perso	nal protective equip	ment	
Filt	ratory protection er type protection	exposure a	e local exhaust ventilation is not available or assessment demonstrates exposures outside the ded guidelines, use respiratory protection. s type
Ма	terial	: Chemical-r	esistant gloves
Re	marks	 Choose gloves to protect hands against chemicals de on the concentration specific to place of work. Breakt time is not determined for the product. Change gloves For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protec gloves with the glove manufacturer. Wash hands befor breaks and at the end of workday. 	
Eyep	rotection	: Wear the fo	ollowing personal protective equipment:
Skin a	nd body protection	 Safety goggles Select appropriate protective clothing based on chemic resistance data and an assessment of the local exposu potential. Skin contact must be avoided by using impervious prote clothing (gloves, aprons, boots, etc). 	
Hygie	ne measures	: If exposure eye flushin working pla When usin	e to chemical is likely during typical use, provide of systems and safety showers close to the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	No data available
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available



Lisinopril Formulation

Ver 3.9	sion	Revision Date: 04/09/2022		S Number: 10-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015
	Melting	point/freezing point	:	No data available	9
	lnitial b range	oiling point and boiling	:	No data available	e
	Flash p	ooint	:	No data available	e
	Evapor	ration rate	:	No data available	9
	Flamm	ability (solid, gas)	:	May form explos handling or other	ive dust-air mixture during processing, r means.
	Flamm	ability (liquids)	:	No data available	9
		explosion limit / Upper ability limit	:	No data available	e
		explosion limit / Lower ability limit	:	No data available	e
	Vapor	pressure	:	No data available	9
	Relativ	e vapor density	:	No data available	9
	Density	y	:	No data available	e
	Solubil Wat	lity(ies) er solubility	:	No data available	9
	Partitio octano	n coefficient: n-	:	No data available	e
		nition temperature	:	No data available	e
	Decom	position temperature	:	No data available	9
	Viscos Visc	ity cosity, dynamic	:	No data available	9
	Viso	cosity, kinematic	:	No data available	9
	Explos	iveproperties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	9
	Particle	esize	:	No data available	e

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	May form explosive dust-air mixture during processing,



Version 3.9	Revision Date: 04/09/2022		OS Number: 010-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015
tions			handling or othe Can react with s	r means. trong oxidizing agents.
Incom	tions to avoid patible materials dous decomposition cts		Heat, flames and Avoid dust forma Oxidizing agents No hazardous de	ation.
SECTION	11. TOXICOLOGICAL	INF	ORMATION	
Inhala Skin c Ingest Eye c	contact	s of	exposure	
	assified based on avai	lable	information.	
	oonents:			
Starc Acute	h: oral toxicity	:	LD50 (Rat): > 5,0	000 mg/kg
Acute	dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
Lisin Acute	opril: oral toxicity	:	LD50 (Rat): > 20, LD50 (Mouse): >	
	corrosion/irritation assified based on avai	lable	information.	
Comp	oonents:			
Lisin Speci Result	es	:	Rabbit Mild skin irritatior	1
	us eye damage/eye ir assified based on avai			
<u>Comp</u>	oonents:			
Starc Speci Result	es	:	Rabbit No eye irritation	
Lisino Speci Result	es	:	Rabbit Mild eye irritation 7 / 13	



ersion .9	Revision Date: 04/09/2022		9S Number: 010-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015
Resp	iratory or skin sens	itizatio	on	
	sensitization lassified based on av	ailable	information.	
-	iratory sensitizatior lassified based on av		information.	
<u>Com</u>	ponents:			
Starc Test T Route Spec Resul	Гуре es of exposure ies	:	Maximization Skin contact Guinea pig negative	Test
Test 7	es of exposure	:	Maximization Dermal negative	Test
Not c	n cell mutagenicity lassified based on av ponents:	ailable	information.	
Starc	-			
	toxicity in vitro	:	Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
Lisin	opril:			
	toxicity in vitro	:	Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
				vitro mammalian cell gene mutation test Chinese hamster lung cells ve
			•••	caline elution assay rat hepatocytes ve
				romosome aberration test in vitro Chinese hamster ovary cells ve
Geno	toxicity in vivo	:	Test Type: Mi Species: Mou Cell type: Bor Application Ro Result: negati	ne marrow pute: Oral



Vers 3.9	sion	Revision Date: 04/09/2022		9S Number: 010-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015
		ogenicity assified based on availa	able	information.	
	<u>Comp</u>	<u>onents:</u>			
	Lisino	pril:			
		ation Route ure time	:	Rat Oral 105 weeks 90 mg/kg body w negative	eight
		ation Route ure time	:	Mouse Oral 92 weeks 135 mg/kg body v negative	veight
	-	ductive toxicity amage the unborn chile	d.		
	<u>Comp</u>	<u>onents:</u>			
	Lisino	pril:			
	Effects	s on fertility	:	Symptoms: No ef	-
	Effects	s on fetal development	:		
				Symptoms: Total	e: Oral oxicity: LOAEL: 100 mg/kg body weight Resorptions / resorption rate. xic effects and adverse effects on the
					e: Oral oxicity: LOAEL: 0.1 mg/kg body weight xic effects and adverse effects on the
	Reproo sessm	ductive toxicity - As- ent	:	Positive evidence human epidemiol	of adverse effects on development from ogical studies.



Version 3.9	Revision Date: 04/09/2022		DS Number: 010-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015	
Not ST	STOT-single exposure Not classified based on available information. STOT-repeated exposure				
		ıs (K	idney) through pro	longed or repeated exposure if swallowed.	
<u>Co</u>	<u>mponents:</u>				
Rou Targ	inopril: utes of exposure get Organs sessment	:	Ingestion Kidney May cause dama exposure.	age to organs through prolonged or repeated	
Rep	peated dose toxicity				
<u>Co</u>	mponents:				
Sta	rch:				
NO Apr Exp	ecies AEL blication Route bosure time thod		Rat >= 2,000 mg/kg Skin contact 28 Days OECD Test Guid	eline 410	
Lis	inopril:				
Spe LO/ App Exp	ecies AEL blication Route oosure time get Organs	:	Rat 2 mg/kg Oral 1 y Kidney		
LÖA Apr Exp	ecies AEL blication Route bosure time get Organs		Dog 15 mg/kg Oral 1 y Kidney		
-	piration toxicity t classified based on avai	lable	e information.		
Exp	perience with human ex	pos	ure		
<u>Co</u>	mponents:				
Lis	inopril:				
	neral Information estion	:	Symptoms: Dizz Cough, Lowered	ness, Cough, Headache ness, Headache, Fatigue, Diarrhea, Nausea, blood pressure, electrolyte imbalance amage the unborn child.	

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Lisinopril Formulation

Version 3.9	Revision Date: 04/09/2022	SDS Number: 50010-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015
SECTION	N 12. ECOLOGICAL INF	ORMATION	
Eco	toxicity		
<u>Com</u>	<u>iponents:</u>		
Toxi	n opril: city to daphnia and other atic invertebrates	Exposure tim	ia magna (Water flea)): 20,000 mg/l e: 48 h D Test Guideline 202
	sistence and degradab i lata available	lity	
	accumulative potential lata available		
	ility in soil lata available		
•	er adverse effects lata available		
SECTION	N 13. DISPOSAL CONS	DERATIONS	
Disp	oosal methods		

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

TDG

Not regulated as a dangerous good

Special precautions for user Not applicable



Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2022
3.9	04/09/2022	50010-00021	Date of first issue: 01/26/2015

SECTION 15. REGULATORY INFORMATION

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

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

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value

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 Sub-



Lisinopril Formulation

Version 3.9	Revision Date: 04/09/2022		0S Number: 010-00021	Date of last issue: 03/26/2022 Date of first issue: 01/26/2015
menda		of [Dangerous Goods;	Nations; UNRTDG - United Nations Recom- vPvB - Very Persistent and Very Bioaccumu- ormation System
	es of key data used to e the Material Safety heet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
Revision Date for	on Date ormat	:	04/09/2022 mm/dd/yyyy	

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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