

Revision:	01/03/2017

	Section 1.	Identification of the Substar	nce/Mixture and o	f the Company/U	ndertaking		
1.1	Product Code:	20796					
	Product Name:	Perindopril					
	Synonyms:		[(1S)-1-(ethoxycarb	onyl)butyl]amino]-	1-oxopropyl]octahydro-1H-indo		
		2-carboxylic acid;					
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses	: For research use only, n	ot for human or vet	erinary use.			
1.3	Details of the Supplier of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany				
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Com	bany	+1 (73	4)971-3335		
1.4	Emergency telephone nur	nber:					
	Emergency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300		
		CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887		
		Section 2. Ha	zards Identif	ication			
2.1	Classification of the Subs	tance or Mixture:					
2.2	Label Elements:						
	GHS Signal Word: None						
	GHS Hazard Phrases:						
		urrently available data this sub	stance or mixture is	s not classifiable ac	ccording to GHS.		
		-	stance or mixture is	s not classifiable ad	ccording to GHS.		
	Based on evaluation of cu GHS Precaution Phrase No phrases apply.	s:	stance or mixture is	s not classifiable ac	ccording to GHS.		
	Based on evaluation of cu GHS Precaution Phrase No phrases apply. GHS Response Phrases	s:	stance or mixture is	s not classifiable ad	ccording to GHS.		
	Based on evaluation of cu GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply.	s:	stance or mixture is	s not classifiable ac	ccording to GHS.		
	Based on evaluation of cu GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:			ecording to GHS.		
	Based on evaluation of cu GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7	s: sal Phrases: for Storage and Section 13 for	r Disposal informati	on.	-		
2.3	Based on evaluation of cu GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	s: sal Phrases: for Storage and Section 13 for Material may be irritating to t	r Disposal informati he mucous membra	on. anes and upper res	-		
2.3	Based on evaluation of cu GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7	s: sal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalation	r Disposal information he mucous membra h, ingestion, or skin	on. anes and upper res absorption.	-		
2.3	Based on evaluation of cu GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	s: sal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalatior May cause eye, skin, or resp	r Disposal information he mucous membra n, ingestion, or skin piratory system irrita	on. anes and upper res absorption. ition.	-		
2.3	Based on evaluation of cu GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health Effects and Symptoms:	s: sal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalatior May cause eye, skin, or resp	r Disposal information he mucous membra n, ingestion, or skin piratory system irrita e, the toxicological p	on. anes and upper res absorption. ttion. properties have not	spiratory tract. t been thoroughly investigated.		
CAS	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health Effects and Symptoms:	s: sal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition	r Disposal information he mucous membra n, ingestion, or skin piratory system irrita e, the toxicological p	on. anes and upper res absorption. ttion. properties have not	spiratory tract. t been thoroughly investigated.		

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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	I d No data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir	hgTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	

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8.2						
	Exposure Controls:					
8.2.1	Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control					
	(Ventilation etc.):	levels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection: S	Safety glasses				
	Protective Gloves: Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat					
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.					
	(Specify Type):					
	Work/Hygienic/Maintenan Do not take internally.					
		acilities storing or utilizing this material should be equipped with an eyewash and a safety showe				
	W	Vash thoroughly after handling.				
	Ν	lo data available.				
	Sec	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	al and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A crystalline solid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):	No data available.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air or m	nm No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1):	: No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~10 mg/ml in PBS (pH 7.2); ~25 mg/ml in EtOH;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperature	e: No data.				
		Ne data				
	Viscosity:	No data.				
9.2	Viscosity: Other Information	NO data.				
9.2	-	No data.				

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			Section 10. Stability and	Reactivi	ty			
10.1	Reactivity: No data available.							
10.2	Stability	:	Unstable [] Stable [X]					
10.3	Stability	Note(s):	Stable if stored in accordance with information	tion listed on	the product in	isert.		
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5	5 Incompatibility - Materials strong oxidizing agents							
	To Avoid:							
10.6	Hazardous		carbon dioxide					
	=	osition or	carbon monoixde					
	Byprodu	icts:	nitrogen oxides					
			Section 11. Toxicological	Informati	on			
11.1	Informat	ion on	The toxicological effects of this product have	ve not been th	noroughly stud	died.		
	Toxicolo	gical Effects:	Perindopril - Toxicity Data: Oral TDLO (wo	man): 58 mg/	kg/2Y (interm	ittent); Oral L	D50 (rat): >	
			gm/kg; Oral LD50 (mouse): >2500 mg/kg;					
		Toxicological	Perindopril - Investigated as a drug and re					
	Effects:		Only select Registry of Toxic Effects of Ch		ances (RTECS	5) data is pre	sented here	
			See actual entry in RTECS for complete in Perindopril RTECS Number: NL5999400	formation.				
<u> </u>	ш	Useradova Com	-	NTD			05114	
CAS			ponents (Chemical Name)	NTP		ACGIH	OSHA	
828	34-16-0	1H-Indole-2-carbo	oxylic acid, -(ethoxycarbonyl)butyl]amino]-1-oxopropyl]	n.a.	n.a.	n.a.	n.a.	
		octahydro-, (2S,3						
			Section 12. Ecological Ir	formatio	<u> </u>		-	
12.1 Toxicity: Avoid release into the environment.								
			Runoff from fire control or dilution water may cause pollution.					
	2 Persistence and							
12.2	Persiste	nce and	No data available.					
12.2			No data available.					
	Degrada	bility:						
		bility: mulative	No data available. No data available.					
12.3	Degrada Bioaccu Potentia	bility: mulative I:						
12.3 12.4	Degrada Bioaccu Potentia Mobility	bility: mulative I: in Soil:	No data available. No data available.					
12.3 12.4	Degrada Bioaccu Potentia Mobility	bility: mulative I: in Soil: of PBT and vPvB	No data available.					
12.3	Degrada Bioaccu Potentia Mobility Results assessm	bility: mulative I: in Soil: of PBT and vPvB	No data available. No data available.					
12.3 12.4 12.5	Degrada Bioaccu Potentia Mobility Results assessm	bility: mulative I: in Soil: of PBT and vPvB nent:	No data available. No data available. No data available. No data available.	sideratio	ns			
12.3 12.4 12.5 12.6	Degrada Bioaccu Potentia Mobility Results assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available. No data available. No data available. Section 13. Disposal Con					
12.3 12.4 12.5	Degrada Bioaccu Potentia Mobility Results assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB nent:	No data available. No data available. No data available. No data available. Section 13. Disposal Con					



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CHEMICAL		A 1 1 1 1				
		Section 14. Trans	sport Informa	ation		
14.1 LAND T	RANSPORT (US	DOT):				
DOT Proper Shipping Name: Not dangerous goods.						
DOT Hazar						
UN/NA Nur						
	RANSPORT (Euro hipping Name:	Not dangerous goods.				
UN Numbe		Not dangerede geode.				
Hazard Cla	ISS:					
14.3 AIR TR	ANSPORT (ICAO/	IATA):				
ICAO/IATA	Shipping Name:	Not dangerous goods.				
Additional Tra	nsport	Transport in accordance with loc	cal, state, and fede	ral regulations.		
Information:						
		Section 15. Regula	atory Inform	ation		
•	-	nents and Reauthorization Act o	-			
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
82834-16-0		oxylic acid, -(ethoxycarbonyl)butyl]amino]-1- dro-, (2S,3aS,7aS)-	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists			
82834-16-0 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1- oxopropyl]octahydro-, (2S,3aS,7aS)-		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in accor	dance with 29 CFF	R 1910.1200 and R	egulation (EC)	
Statement:		No.1272/2008.				
		Section 16. Oth	er Information	on		
Revision Date:		01/03/2017				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	cy or Disclaimer:	DISCLAIMER: This information i		•		
		currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its				
		use. Users should make their own investigations to determine the suitability of the information for				
		their particular purposes.				