

Revision: 03/18/2017

	Section 1.	Identification of the Substance/Mixture and of th	e Company/Undertaking			
.1	Product Code:	21439				
	Product Name:	Quinapril (hydrochloride)				
	Synonyms:	2-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)-3-phenylpro	ppvl]amino]-1-oxopropvl]-1,2,3,4-tetrahvdro-3-iso			
	uinolinecarboxylic acid, monohydrochloride; CI-906; PD 109452-2;					
.2	Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified uses: For research use only, not for human or veterinary use.					
.3	Details of the Supplier of the Safety Data Sheet:					
	Company Name:	Cayman Chemical Company				
		1180 E. Ellsworth Rd.				
		Ann Arbor, MI 48108				
	Web site address:	www.caymanchem.com				
	Information:	Cayman Chemical Company	+1 (734)971-3335			
.4	Emergency telephone nu					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
		Section 2. Hazards Identifica	ation			
.1	Classification of the Subs					
2.2	Label Elements:	Category 2				
2.2						
2	GHS Signal Word:	Warning				
2.2	GHS Signal Word: GHS Hazard Phrases:	Warning				
2.2	GHS Signal Word: GHS Hazard Phrases:	Warning aging fertility or the unborn child.				
2.2	GHS Signal Word: GHS Hazard Phrases: H361: Suspected of dama	Warning aging fertility or the unborn child.				
2	GHS Signal Word: GHS Hazard Phrases: H361: Suspected of dama GHS Precaution Phrase P201: Obtain special inst P202: Do not handle until	Warning aging fertility or the unborn child. es: ructions before use. I all safety precautions have been read and understoo				
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	Section 3. Composition/Information on Ingredients						
CAS RTEC		Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
82586-55-8 NW7176000			xylic acid, thoxycarbonyl)-3-phenylpropyl]a 1,2,3,4-tetrahydro-, hydro	100.0 %	NA NA	Toxic Repro. 2: H361	
			Section 4. Fi	rst Aid Measu	ures		
4.1	Description of First Aid Measures:						
	In Case	of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		l respiration or giv	e oxygen by trained personnel.	
	In Case	of Skin Contact:	Immediately wash skin with s clothing. Get medical attentio			minutes. Remove contaminated efore reuse.	
	In Case	of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 1	5 minutes. Have eyes examined	
	In Case	of Ingestion:	Wash out mouth with water p unconscious person. Get mea medical personnel.	-	-	ve anything by mouth to an ng unless directed to do so by	
			Section 5. Fire	Fighting Mea	asures		
5.1	Media:	e Extinguishing able Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-e g A solid water stream may be	exposed containers.	r, or dry chemical	spray.	
5.2	Flamma	able Properties an	ndNo data available.				
	Hazard	S:					
	Flash P		No data available. No data.				
		ive Limits:	LEL: No data.	UEL: No da	ita		
	-	nition Pt:	No data.				
5.3	-		<b>s:</b> As in any fire, wear self-conta equivalent), and full protectiv	• • • •	-		
			Section 6. Acciden	Ital Release N	<i>Aeasures</i>		
6.1	Protect Emerge	ency Procedures:	and appropriate personal pro	a NIOSH approved s otection (rubber boot	self-contained bre s, safety goggles	athing apparatus, or respirator,	
6.2	Enviror Precaut	tions:	Take steps to avoid release		t, if safe to do so.		
6.3			r Contain spill and collect, as a ngTransfer to a chemical waste		sal in accordance	with local regulations.	

Multi-region format



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		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
		Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Secti	on 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	·
8.2	Exposure Controls:	
8.2.1	-	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne
		evels below recommended exposure limits.
8.2.2	Personal protection equip	nent:
	Eye Protection:	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.
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
		Wash thoroughly after handling.
		No data available.
	Se	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physi	cal 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	mm No data.
	Hg):	
	Vapor Density (vs. Air = 1):	
	Specific Gravity (Water = 1	
	Solubility in Water:	No data.
	Solubility Notes: Octanol/Water Partition	~3.33 mg/ml in PBS (pH 7.2); ~30 mg/ml in EtOH, DMSO, & DMF; No data.
	Coefficient:	ino dala.



	Autoigni	tion Pt:	No data.				
	Decomp	osition Temperat	t <b>ure:</b> No data.				
	Viscosity	y:	No data.				
.2	Other Inf	ormation					
	Percent	Volatile:	No data.				
	Molecula	ar Formula & Weig	ght: C25H30N2O5 • HCI 475.0				
			Section 10. Stability and Reactivity				
0.1	Reactivit	v.	No data available.				
10.2	Stability	-	Unstable [ ] Stable [ X ]				
10.3	-		Unstable [ ] Stable [ X ] Stable if stored in accordance with information listed on the product insert.				
	Polymer		Will occur [ ] Will not occur [ X ]				
10.4	-	ns To Avoid:	No data available.				
10.5			s strong oxidizing agents				
	To Avoid	-					
10.6	Hazardo	us	carbon dioxide				
	Decomp	osition or	carbon monoxide				
	Byprodu		hydrogen chloride				
			nitrogen oxides				
			Section 11. Toxicological Information				
11.1	Informat	ion on	Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied.				
11.1		ion on gical Effects:		_D50 (mouse): 17			
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11.1	Toxicolo		The toxicological effects of this product have not been thoroughly studied. Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral L	_D50 (mouse): 17			
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11.1	Toxicolo Chronic	gical Effects: Toxicological	The toxicological effects of this product have not been thoroughly studied. Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral L mg/kg; Quinapril (hydrochloride) - Investigated as a drug and reproductive effector. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data See actual entry in RTECS for complete information. Quinapril (hydrochloride) RTECS Number: KQ6300000				
	Toxicolo Chronic Effects:	gical Effects: Toxicological Hazardous Com	The toxicological effects of this product have not been thoroughly studied.Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral Lmg/kg;Quinapril (hydrochloride) - Investigated as a drug and reproductive effector.Only select Registry of Toxic Effects of Chemical Substances (RTECS) dataSee actual entry in RTECS for complete information.Quinapril (hydrochloride) RTECS Number: KQ6300000MTPIARCACC	is presented here			
CAS #	Toxicolo Chronic Effects:	gical Effects: Toxicological Hazardous Com 3-Isoquinolinecar	The toxicological effects of this product have not been thoroughly studied.   Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral L   mg/kg;   Quinapril (hydrochloride) - Investigated as a drug and reproductive effector.   Only select Registry of Toxic Effects of Chemical Substances (RTECS) data   See actual entry in RTECS for complete information.   Quinapril (hydrochloride) RTECS Number: KQ6300000   Imponents (Chemical Name) NTP   IARC ACC   rboxylic acid, n.a. n.a.	is presented here			
CAS #	Toxicolo Chronic Effects: #	gical Effects: Toxicological Hazardous Com 3-Isoquinolinecar 2-[(2S)-2-[[(1S)-1-	The toxicological effects of this product have not been thoroughly studied.   Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral L   mg/kg;   Quinapril (hydrochloride) - Investigated as a drug and reproductive effector.   Only select Registry of Toxic Effects of Chemical Substances (RTECS) data   See actual entry in RTECS for complete information.   Quinapril (hydrochloride) RTECS Number: KQ6300000 <b>ponents (Chemical Name)</b> NTP IARC   rboxylic acid, n.a.   -(ethoxycarbonyl)-3-phenylpropyl]amino]-1	is presented here			
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<b>CAS</b> # 8258	Toxicolo Chronic Effects: # 36-55-8	gical Effects: Toxicological Hazardous Com 3-Isoquinolinecar 2-[(2S)-2-[[(1S)-1- -oxopropyl]-1,2,3,	The toxicological effects of this product have not been thoroughly studied.   Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral L   mg/kg;   Quinapril (hydrochloride) - Investigated as a drug and reproductive effector.   Only select Registry of Toxic Effects of Chemical Substances (RTECS) data   See actual entry in RTECS for complete information.   Quinapril (hydrochloride) RTECS Number: KQ6300000 <b>ponents (Chemical Name)</b> NTP IARC   rboxylic acid,   -(ethoxycarbonyl)-3-phenylpropyl]amino]-1   ,4-tetrahydro-, hydro   Section 12. Ecological Information	is presented here			
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CAS # 8258 12.1 12.2	Toxicolo Chronic Effects: # 36-55-8 Toxicity: Persister Degrada	gical Effects: Toxicological Hazardous Com 3-Isoquinolinecar 2-[(2S)-2-[[(1S)-1 -oxopropyl]-1,2,3,	The toxicological effects of this product have not been thoroughly studied.   Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral Lmg/kg;   Quinapril (hydrochloride) - Investigated as a drug and reproductive effector.   Only select Registry of Toxic Effects of Chemical Substances (RTECS) data   See actual entry in RTECS for complete information.   Quinapril (hydrochloride) RTECS Number: KQ6300000 <b>ponents (Chemical Name)</b> NTP   IARC ACC   rboxylic acid, n.a.   -(ethoxycarbonyl)-3-phenylpropyl]amino]-1 n.a.   ,4-tetrahydro-, hydro NTP   Section 12. Ecological Information.   Avoid release into the environment.   Runoff from fire control or dilution water may cause pollution.   No data available.	is presented here			
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CAS # 8258 12.1 12.2 12.3	Toxicolo Chronic Effects: # 36-55-8 Toxicity: Persister Degrada Bioaccur	gical Effects: Toxicological Hazardous Com 3-Isoquinolinecarl 2-[(2S)-2-[[(1S)-1 -oxopropyl]-1,2,3, nce and bility: mulative I:	The toxicological effects of this product have not been thoroughly studied.   Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral Lmg/kg;   Quinapril (hydrochloride) - Investigated as a drug and reproductive effector.   Only select Registry of Toxic Effects of Chemical Substances (RTECS) data   See actual entry in RTECS for complete information.   Quinapril (hydrochloride) RTECS Number: KQ6300000 <b>ponents (Chemical Name)</b> NTP   IARC ACC   rboxylic acid, n.a.   -(ethoxycarbonyl)-3-phenylpropyl]amino]-1 n.a.   ,4-tetrahydro-, hydro NTP   Section 12. Ecological Information.   Avoid release into the environment.   Runoff from fire control or dilution water may cause pollution.   No data available.	is presented here			
CAS # 8258 12.1 12.2 12.3 12.4	Toxicolo Chronic Effects: # 36-55-8 Toxicity: Persister Degrada Bioaccur Potentia Mobility	gical Effects: Toxicological Hazardous Com 3-Isoquinolinecarl 2-[(2S)-2-[[(1S)-1- -oxopropyI]-1,2,3, nce and bility: mulative I: in Soil:	The toxicological effects of this product have not been thoroughly studied. Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral L mg/kg; Quinapril (hydrochloride) - Investigated as a drug and reproductive effector. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data See actual entry in RTECS for complete information. Quinapril (hydrochloride) RTECS Number: KQ6300000 <b>ponents (Chemical Name)</b> NTP IARC ACC tboxylic acid, -(ethoxycarbonyl)-3-phenylpropyl]amino]-1 ,4-tetrahydro-, hydro Section 12. Ecological Information Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. No data available. No data available.	is presented here			
	Toxicolo Chronic Effects: # 36-55-8 Toxicity: Persister Degrada Bioaccur Potentia Mobility	gical Effects: Toxicological Hazardous Com 3-Isoquinolinecarl 2-[(2S)-2-[[(1S)-1 -oxopropyl]-1,2,3, nce and bility: mulative I: in Soil: of PBT and vPvB	The toxicological effects of this product have not been thoroughly studied.   Quinapril (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3541 mg/kg; Oral L   mg/kg;   Quinapril (hydrochloride) - Investigated as a drug and reproductive effector.   Only select Registry of Toxic Effects of Chemical Substances (RTECS) data   See actual entry in RTECS for complete information.   Quinapril (hydrochloride) RTECS Number: KQ630000   ponents (Chemical Name) NTP   IARC ACC   rboxylic acid, n.a.   -(ethoxycarbonyl)-3-phenylpropyl]amino]-1 n.a.   ,4-tetrahydro-, hydro NTP   Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.   No data available. No data available.	is presented here			



	Section 13. Dispos	al Considerat	ions		
<b>3.1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.					
	Section 14. Trans	sport Informat	ion		
RANSPORT (US	DOT):				
er Shipping Name	: Not dangerous goods.				
-					
ISS:					
· ·	,				
nsport	I ransport in accordance with loc	cal, state, and federal	l regulations.		
	Section 15 Pogul	atory Information	tion		
	<b>0</b>	5			
		-	S 304 RQ	S. 313 (TRI)	
		No	No	No	
2-[(2S)-2-[[(1S)-1	-(ethoxycarbonyl)-3-phenylpropyl				
Hazardous Components (Chemical Name)					
2-[(2S)-2-[[(1S)-1	1-(ethoxycarbonyl)-3-phenylpropyl PROP.65: No				
ormation	• •	dance with 29 CFR 1	1910.1200 and Reg	ulation (EC)	
	Section 16. Oth	er Information	า		
		er Information	٦		
ormation About	Section 16. Oth	er Informatior	ו		
	TRANSPORT (US I er Shipping Name rd Class: mber: TRANSPORT (Euro Shipping Name: er: ass: ANSPORT (ICAO/ A Shipping Name: Insport Uperfund Amendm Hazardous Com 3-Isoquinolinecar 2-[(2S)-2-[[(1S)-1 ]amino]-1-oxopro Hazardous Com 3-Isoquinolinecar 2-[(2S)-2-[[(1S)-1	Disposal Method: Dispose in accordance with loca Section 14. Trans TRANSPORT (US DOT): er Shipping Name: Not dangerous goods. rd Class: mber: TRANSPORT (European ADR/RID): Shipping Name: Not dangerous goods. er: ass: ANSPORT (ICAO/IATA): A Shipping Name: Not dangerous goods. er: ass: ANSPORT (ICAO/IATA): A Shipping Name: Not dangerous goods. Insport Transport in accordance with loc Section 15. Regular uperfund Amendments and Reauthorization Act of Hazardous Components (Chemical Name) 3-Isoquinolinecarboxylic acid, 2-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)-3-phenylpropyl ]amino]-1-oxopropyl]-1,2,3,4-tetrahydro-, hydro	Disposal Method: Dispose in accordance with local, state, and federal r Section 14. Transport Informat TRANSPORT (US DOT): er Shipping Name: Not dangerous goods. rd Class: mber: TRANSPORT (European ADR/RID): Shipping Name: Not dangerous goods. er: ass: ANSPORT (ICAO/IATA): A Shipping Name: Not dangerous goods. msport Transport in accordance with local, state, and federa Section 15. Regulatory Information uperfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) S. 302 (EHS) 3-Isoquinolinecarboxylic acid, 2-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)-3-phenylpropyl] ]amino]-1-oxopropyl]-1,2,3,4-tetrahydro-, hydro Hazardous Components (Chemical Name) CAA HAP,ODC: N PROP.65: No 3-Isoquinolinecarboxylic acid, 2-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)-3-phenylpropyl] ]amino]-1-oxopropyl]-1,2,3,4-tetrahydro-, hydro This SDS was prepared in accordance with 29 CFR	Section 14. Transport Information    FRANSPORT (US DOT):   er Shipping Name: Not dangerous goods.   rd class: Imber:    Image:    Image: <td clas<="" td=""></td>	

Multi-region format