

Revision: 05/01/2019

	Section 1 Ide	Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830	
	Section 1. Ide	ntification of the Substance/Mixture and of th	e Company/Undertaking
1	Product Code:	23992	
	Product Name:	(R)-Cetirizine (hydrochloride)	
	Synonyms:	2-[2-[4-[(R)-(4-chlorophenyl)phenylmethyl]-1-pi	perazinyljethoxyj-acetic acid, dihydrochlorid
		Levocetirizine;	
2		ne substance or mixture and uses advised aga	
	Relevant identified uses:	For research use only, not for human or veterin	ary use.
3	Details of the Supplier of the	-	
	Company Name:	Cayman Chemical Company	
		1180 E. Ellsworth Rd.	
	Web site address:	Ann Arbor, MI 48108	
		www.caymanchem.com	.4 (724)074 2225
	Information:	Cayman Chemical Company	+1 (734)971-3335
4	Emergency telephone number		4 (000) 404 0000
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887
	Classification of the Substan Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Label Elements:	ory 4	ation
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C	ice or Mixture: lory 4	ation
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C	ice or Mixture: lory 4	ation
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Label Elements:	ice or Mixture: jory 4 ategory 1	ation
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed.	ice or Mixture: jory 4 ategory 1 Warning	ation
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic li	ice or Mixture: jory 4 ategory 1 Warning	ation
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic li GHS Precaution Phrases:	ice or Mixture: jory 4 ategory 1 Warning fe.	ation
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic li GHS Precaution Phrases: P264: Wash {hands} thoroug	ice or Mixture: jory 4 ategory 1 Warning fe.	ation
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic li GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the en	ice or Mixture: jory 4 ategory 1 Warning fe.	ation
	Acute Toxicity: Oral, Categradic Toxicity (Acute), C Label Elements: Constraint of the second	ice or Mixture: jory 4 ategory 1 Warning fe. Ihly after handling. nvironment.	
	Acute Toxicity: Oral, Categradian Aquatic Toxicity (Acute), C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic li GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the elements GHS Response Phrases: P301+312: IF SWALLOWED	ice or Mixture: jory 4 ategory 1 Warning fe.	
	Acute Toxicity: Oral, Categra Aquatic Toxicity (Acute), C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic li GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the end GHS Response Phrases: P301+312: IF SWALLOWED P330: Rinse mouth.	ice or Mixture: jory 4 ategory 1 Warning fe. Ihly after handling. nvironment.	
	Acute Toxicity: Oral, Categradic Toxicity (Acute), C Label Elements:	ice or Mixture: Jory 4 ategory 1 Warning fe. July after handling. Invironment. P: Call a POISON CENTER or doctor/physician if y	
1	Acute Toxicity: Oral, Categr Aquatic Toxicity (Acute), C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic li GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the en GHS Response Phrases: P301+312: IF SWALLOWED P330: Rinse mouth. P391: Collect spillage. GHS Storage and Disposal	ice or Mixture: Jory 4 ategory 1 Warning fe. July after handling. Invironment. P: Call a POISON CENTER or doctor/physician if y	

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2.3		e Human Health and Symptoms:		or skin absorption. iratory system irritation e, the toxicological pro	on. operties have not	t been thoroughly investigated.
CAS		Hazardous Com	tion 3. Composition	Concentration	EC No./	GHS Classification
	CS # 18-87-0 90000	REACH Registra		100.0 %	EC Index No. 641-093-3 NA	Acute Tox.(O) 4: H302 Aquatic (A) 1: H400
		ļ	Section 4. Fi	rst Aid Measu		
4.1	Measur	otion of First Aid res: e of Inhalation:			respiration or giv	ve oxygen by trained personnel.
			clothing. Get medical attentio	oap and plenty of wa n if symptoms occur.	Wash clothing b	
		of Eye Contact: of Ingestion:	Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p	inel.		5 minutes. Have eyes examined ive anything by mouth to an
			•	-	-	ng unless directed to do so by
			Section 5. Fire	Fighting Mea	sures	
5.1		e Extinguishing	Use alcohol-resistant foam, c		, or dry chemical	spray.
	Media: Unsuita Media:	able Extinguishing	Use water spray to cool fire-e A solid water stream may be	-		
5.2	Flamma Hazard	-	d No data available.			
			No data available.			
	Flash P		No data. LEL: No data.	UEL: No dat	ha	
	-	ive Limits: nition Pt:	No data.	UEL. NO GA	la.	
5.3	-		: As in any fire, wear self-conta equivalent), and full protectiv		-	
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		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment and	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	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3	Methods and Material For	Contain spill and collect, as appropriate.
	Containment and Cleaning	Transfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	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.
	Sect	on 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	(Ventilation etc.):	levels below recommended exposure limits.
8.2.2	Personal protection equip	ment:
	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	ection 9. Physical and Chemical Properties
9.1	Information on Basic Phys	ical 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): Vener Density (ven Air 4)	No deta
	Vapor Density (vs. Air = 1)	No data.
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	Specific	Gravity (Water =	1):	No data.					
	Solubility	y in Water:		No data.					
	Solubility	y Notes:		~10 mg/ml in PBS (pH 7	.2); ~12 mg	g/ml in DMSO	; ~3 mg/ml i	n DMF;	
	Octanol/	Water Partition		No data.					
	Coefficie	ent:							
	Autoigni	tion Pt:		No data.					
	-	osition Temperat		No data.					
	Viscosity			No data.					
9.2	Other Info								
0.2	Percent			No data.					
		r Formula & Weig		C21H25CIN2O3 • 2HCI	461.8				
	Wolecula		-						
			Se	ection 10. Stabil	ity and	Reactivit	y		
10.1	Reactivit	y:	No data	a available.					
10.2	Stability:	:	Unstabl	le [] Stable [X]					
10.3	Stability	Note(s):	Stable in	if stored in accordance w	ith informa	tion listed on	the product	insert.	
	Polymeri	zation:	Will occ	cur [] Will not occur	r [X]				
10.4	Conditio	ns To Avoid:	No data	a available.					
10.5	Incompa	tibility - Materials	strona c	oxidizing agents					
	To Avoid	-	5	<u> </u>					
10.6	Hazardo		carbon	dioxide					
		osition or		monoxide					
	Byprodu			en chloride gas					
	Byprodu	013.		n oxides					
			Soc	ction 11. Toxicol		Informati	<u></u>		
11.1	Informat		The tox	cicological effects of this p	product hav	ve not been th	oroughly stu	udied.	
	Toxicolo	gical Effects:							
CAS	#	Hazardous Com	ponents	s (Chemical Name)		NTP	IARC	ACGIH	OSHA
1300	18-87-0	Levocetirizine dih	ydrochlo	oride		n.a.	n.a.	n.a.	n.a.
			<u> </u>	ection 12. Ecolo	aical Ir	formatio	n		
					<u> </u>	IIUIIIaliu	11		
12.1	Toxicity:			elease into the environme					
				from fire control or dilutio	on water ma	ay cause point	ition.		
12.2	Persister		No data	a available.					
	Degrada	-							
12.3	Bioaccu		No data	a available.					
	Potential	l:							
12.4	Mobility	in Soil:	No data	a available.					
12.5	Results of	of PBT and vPvB	No data	a available.					
	assessm	ent:							
12.6	Other ad	verse effects:	No data	a available.					



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3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.							
		Section 14. Trar		-			
14.1 LAND	TRANSPORT (US						
	er Shipping Name	-					
DOT Haza							
UN/NA Nu	mber:						
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):					
ADR/RID Shipping Name:		Environmentally hazardou	s substance, solid, n.o	.S.			
		(2-[2-[4-[(R)-(4-chlorophen	yl)phenylmethyl]-1-pip	erazinyl]ethoxy]-acet	tic acid, dihydrochloride		
UN Numb	er:	3077	Packing Grou	ıp:	III		
Hazard Cl	ass:	9 - CLASS 9					
14.3 AIR TR	ANSPORT (ICAO/	IATA):					
ICAO/IAT	A Shipping Name:	Environmentally hazardou	s substance, solid, n.o	.S.			
		(2-[2-[4-[(R)-(4-chlorophen			-		
UN Numb		3077	Packing Grou	-	III		
Hazard Cl		9 - CLASS 9	IATA Classifi		9		
Additional Tra	ansport	Transport in accordance with I		-			
Information:		When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.					
		Therefore packaging does not					
					complete Quantity.		
		Section 15. Regu	llatory Informa	tion			
FPA SARA (S	uperfund Amendn	nents and Reauthorization Act	of 1986) Lists				
		ponents (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI)					
CAS #	Hazardous Com	iponents (chemical Name)		No No No			
-	Hazardous Com		No	No	No		
CAS #	Levocetirizine di		No Other US EPA or S	-	No		
CAS # 130018-87-0	Levocetirizine di	nydrochloride ponents (Chemical Name)	Other US EPA or S	-			
CAS # 130018-87-0 CAS # 130018-87-0	Levocetirizine dik Hazardous Com Levocetirizine dik	nydrochloride ponents (Chemical Name) nydrochloride	Other US EPA or S CAA HAP,ODC: N PROP.65: No	State Lists o; CWA NPDES: No	; TSCA: No; CA		
CAS # 130018-87-0 CAS # 130018-87-0 Regulatory Inf	Levocetirizine dik Hazardous Com Levocetirizine dik	nydrochloride ponents (Chemical Name) nydrochloride This SDS was prepared in acc	Other US EPA or S CAA HAP,ODC: N PROP.65: No	State Lists o; CWA NPDES: No	; TSCA: No; CA		
CAS # 130018-87-0 CAS # 130018-87-0 Regulatory Inf	Levocetirizine dik Hazardous Com Levocetirizine dik	nydrochloride ponents (Chemical Name) hydrochloride This SDS was prepared in acc No.1272/2008.	Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR	State Lists o; CWA NPDES: No 1910.1200 and Regu	; TSCA: No; CA		
CAS # 130018-87-0 CAS #	Levocetirizine dik Hazardous Com Levocetirizine dik	nydrochloride ponents (Chemical Name) nydrochloride This SDS was prepared in acc	Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR	State Lists o; CWA NPDES: No 1910.1200 and Regu	; TSCA: No; CA		
CAS # 130018-87-0 CAS # 130018-87-0 Regulatory Inf Statement:	Levocetirizine dif Hazardous Com Levocetirizine dif	nydrochloride ponents (Chemical Name) hydrochloride This SDS was prepared in acc No.1272/2008.	Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR	State Lists o; CWA NPDES: No 1910.1200 and Regu	; TSCA: No; CA		
CAS # 130018-87-0 CAS # 130018-87-0 Regulatory Inf Statement: Revision Date	Levocetirizine dif Hazardous Com Levocetirizine dif	nydrochloride ponents (Chemical Name) hydrochloride This SDS was prepared in acc No.1272/2008. Section 16. Ot	Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR	State Lists o; CWA NPDES: No 1910.1200 and Regu	; TSCA: No; CA		
CAS # 130018-87-0 CAS # 130018-87-0 Regulatory Inf Statement: Revision Date Additional Info	Levocetirizine dif Hazardous Com Levocetirizine dif formation	hydrochloride aponents (Chemical Name) hydrochloride This SDS was prepared in acc No.1272/2008. Section 16. Ot 05/01/2019	Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR	State Lists o; CWA NPDES: No 1910.1200 and Regu	; TSCA: No; CA		
CAS # 130018-87-0 CAS # 130018-87-0 Regulatory Inf Statement: Revision Date Additional Info This Product:	Levocetirizine dif Hazardous Com Levocetirizine dif formation	hydrochloride aponents (Chemical Name) hydrochloride This SDS was prepared in acc No.1272/2008. Section 16. Ot 05/01/2019	Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR	State Lists o; CWA NPDES: No 1910.1200 and Regu	; TSCA: No; CA lation (EC)		
CAS # 130018-87-0 CAS # 130018-87-0 Regulatory Inf Statement: Revision Date Additional Info This Product:	Levocetirizine dif Hazardous Com Levocetirizine dif formation	hydrochloride hydrochloride This SDS was prepared in acc No.1272/2008. Section 16. Ot 05/01/2019 No data available. DISCLAIMER: This information currently available to us. Howe	Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR her Information	State Lists o; CWA NPDES: No 1910.1200 and Regu C	b; TSCA: No; CA lation (EC) the best information ty or any other warrant		
CAS # 130018-87-0 CAS # 130018-87-0 Regulatory Inf Statement: Revision Date Additional Info This Product:	Levocetirizine dif Hazardous Com Levocetirizine dif formation	hydrochloride ponents (Chemical Name) hydrochloride This SDS was prepared in acc No.1272/2008. Section 16. Ot 05/01/2019 No data available. DISCLAIMER: This information currently available to us. Howe express or implied, with respect	Other US EPA or 3 CAA HAP,ODC: N PROP.65: No ordance with 29 CFR her Information her lnformation ever, we make no warrate to such information,	State Lists o; CWA NPDES: No 1910.1200 and Regu n n	the best information ty or any other warrant ability resulting from its		
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