

Revision: 06/08/2019

	Sortinr	 Identification of the Substance/Mixture and of th 	he Comnany/Lli	ndertaking			
				Ideitaking			
1.1							
	Product Name:	Reduced Haloperidol					
	Synonyms:	4-(4-chlorophenyl)alpha(4-fluorophenyl)-4-h Metabolite II;	iydroxy-1-piperid	linebutanol; Haloperidol			
1.2	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.						
1.3	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	4)971-3335			
1.4	Emergency telephone	e number:					
	Emergency Contact	CHEMTREC Within USA and Canada:	+1 (80	0)424-9300			
		CHEMTREC Outside USA and Canada:	+1 (70	3)527-3887			
		Section 2. Hazards Identifica	ation				
	Classification of the S						
2.1	Label Elements:						
		Substance or Mixture:					
	Label Elements: GHS Signal Word:	None					
	Label Elements: GHS Signal Word: GHS Hazard Phrase	None es:	ot classifiable as	coording to CHS			
	Label Elements: GHS Signal Word: GHS Hazard Phrase Based on evaluation	None es: of currently available data this substance or mixture is no	ot classifiable ac	cording to GHS.			
	Label Elements: GHS Signal Word: GHS Hazard Phrase Based on evaluation GHS Precaution Ph	None es: of currently available data this substance or mixture is no	ot classifiable ac	cording to GHS.			
	Label Elements: GHS Signal Word: GHS Hazard Phrase Based on evaluation GHS Precaution Ph No phrases apply.	None es: of currently available data this substance or mixture is no arases:	ot classifiable ac	cording to GHS.			
2.1 2.2	Label Elements: GHS Signal Word: GHS Hazard Phrase Based on evaluation GHS Precaution Ph No phrases apply. GHS Response Phr	None es: of currently available data this substance or mixture is no arases:	ot classifiable ac	cording to GHS.			
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	Label Elements: GHS Signal Word: GHS Hazard Phrase Based on evaluation GHS Precaution Ph No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D	None es: of currently available data this substance or mixture is no arases: rases: Disposal Phrases:		cording to GHS.			
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrase Based on evaluation GHS Precaution Phr No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D Please refer to Section	None es: of currently available data this substance or mixture is no arases: rases: Disposal Phrases: on 7 for Storage and Section 13 for Disposal information.					
	Label Elements: GHS Signal Word: GHS Hazard Phrase Based on evaluation GHS Precaution Ph No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D Please refer to Section Adverse Human Hea	None es: of currently available data this substance or mixture is no arases: rases: Disposal Phrases: on 7 for Storage and Section 13 for Disposal information. Ith Material may be irritating to the mucous membrane	es and upper res				
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2.2	Label Elements: GHS Signal Word: GHS Hazard Phrase Based on evaluation GHS Precaution Ph No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D Please refer to Section Adverse Human Hea Effects and Symptom	None es: of currently available data this substance or mixture is no arases: rases: bisposal Phrases: on 7 for Storage and Section 13 for Disposal information. Ith Material may be irritating to the mucous membrane ns: May be harmful by inhalation, ingestion, or skin ab May cause eye, skin, or respiratory system irritatio To the best of our knowledge, the toxicological pro	es and upper res psorption. on. operties have not	piratory tract.			
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2.2	Label Elements: GHS Signal Word: GHS Hazard Phrase Based on evaluation GHS Precaution Ph No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D Please refer to Section Adverse Human Hea Effects and Symptom S # / Hazardous C	None es: of currently available data this substance or mixture is no arases: eases: Disposal Phrases: on 7 for Storage and Section 13 for Disposal information. Ith Material may be irritating to the mucous membrane ins: May be harmful by inhalation, ingestion, or skin abi May cause eye, skin, or respiratory system irritatio To the best of our knowledge, the toxicological pro Section 3. Composition/Information of Components (Chemical Name)/ Concentration	es and upper res psorption. on. operties have not	piratory tract.			

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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 ar Hazards:	IdNo 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 Cleanin	ngTransfer 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	NKeep 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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	HEMICAL						
8.2	Exposure Controls:						
8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to cor							
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	ment:						
	Eye Protection:	Safety glasses					
	Protective Gloves:	batible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	H approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
		ties storing or utilizing this material should be equipped with an eyewash and a safety shower					
		Wash thoroughly after handling.					
		No data available.					
	C_						
		ection 9. Physical and Chemical Properties					
9.1	-	ical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A solid					
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data. No data. No data available.					
	Evaporation Rate:						
	Flammability (solid, gas):						
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air or	No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	: No data.					
	Specific Gravity (Water = 1): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble (slightly) in: chloroform; dichloromethane;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatu	ire: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	ht: C21H25CIFNO2 377.9					

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	Section 10. Stability and Reactivity								
10.1	Reactivi	ty:	No data available.						
10.2	Stability	:	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with information	ation listed on	the product	insert.			
	Polymer	ization:	Will occur [] Will not occur [X]						
10.4	Conditio	ons To Avoid:	No data available.						
10.5	Incompa	tibility - Materials	strong oxidizing agents						
	To Avoid:								
10.6	Hazardo	us	carbon dioxide						
	Decomposition or		carbon monoxide						
	Byprodu	icts:	hydrogen chloride gas hydrogen fluoride						
			nitrogen oxides						
			Section 11. Toxicological						
11.1	Informat		The toxicological effects of this product have not been thoroughly studied.						
		gical Effects:	Reduced Haloperidol - Toxicity Data: Subo						
		Toxicological	Only select Registry of Toxic Effects of Ch See actual entry in RTECS for complete in		ances (RTE	US) data is pre	sented here.		
	Effects:		Reduced Haloperidol RTECS Number: TM						
CAS #	4	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	-)4-67-1		I)-1-[4-(p-fluorophenyl)-4-hydroxybutyl]pipe		n.a.	n.a.			
3410	4-07-1	ridin-4-ol)-1-[4-(p-nuoropnenyi)-4-nyuroxybutyi]pipe	11.a.	11.a.	11.a.	n.a.		
			Section 12. Ecological Ir	formatio	n	· ·			
12.1	Toxicity	:	Avoid release into the environment.						
			Runoff from fire control or dilution water may cause pollution. No data available.						
12.2	Persiste	nce and							
	Degrada	bility:							
12.3	Bioaccu	mulative	No data available.						
	Potentia	I:							
12.4	Mobility	in Soil:	No data available.						
12.5	Results	of PBT and vPvB	3 No data available.						
	assessm	nent:							
12.6									
	Section 13. Disposal Considerations								
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, an	nd federal reg	ulations.				



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Section 14. Transport Information							
14.1 LAND TRANSPORT (US DOT):							
DOT Prope DOT Hazar UN/NA Nur		Not dangerous goods.					
14.1 LAND T	14.1 LAND TRANSPORT (European ADR/RID):						
ADR/RID S	hipping Name:	Not dangerous goods.					
UN Numbe	UN Number:						
Hazard Cla	Hazard Class:						
	ANSPORT (ICAO/	-					
	Shipping Name:	Not dangerous goods.					
Additional Trai	nsport	Transport in accordance with loc	cal, state, and fede	ral regulations.			
Information:							
		Section 15. Regula	atory Informa	ation			
		nents and Reauthorization Act o	-				
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
34104-67-1	4-(p-Chloropheny ybutyl]piperidin-4	/l)-1-[4-(p-fluorophenyl)-4-hydrox -ol	No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	r State Lists			
34104-67-1	4-(p-Chloropheny ybutyl]piperidin-4	/l)-1-[4-(p-fluorophenyl)-4-hydrox -ol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Oth	er Informatio	on			
Revision Date:		06/08/2019					
Additional Info	rmation About	No data available.					
This Product:							
Company Polic	y or Disclaimer:	DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their ow their particular purposes.	er, we make no wa to such information	rranty of merchanta , and we assume r	ability or any other warranty, no liability resulting from its		