

	occording t	o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83/				
	Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking			
1.1	Product Code:	29526				
	Product Name:	(-)-Lobelin (hydrochloride)				
	Synonyms:	2-[(2R,6S)-6-[(2S)-2-hydroxy-2-phenylethyl]-1-	methyl-2-piperidinyl]-1-phenyl-ethanone,			
		monohydrochloride; ()alphaLobeline; VUF	10751;			
1.2	Relevant identified uses of t	he substance or mixture and uses advised aga	ainst:			
	<b>Relevant identified uses:</b> 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)971-3335			
1.4	Emergency telephone numb	er:				
	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			
2.1	Classification of the Substa					
	GHS Signal Word:	Danger				
	GHS Hazard Phrases:					
	H301: Toxic if swallowed.					
	H331: Toxic if inhaled.					
	GHS Precautionary Phrase	es:				
	P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.					
	P264: Wash {hands} thoroughly after handling.					
	GHS Response Phrases:					
	P301+310: IF SWALLOWED: Immediately P311: Call a POISON CENTER or doctor/physician.					
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.					
	P321: Specific treatment {see on this label}.					
	P330: Rinse mouth.					
	GHS Storage and Disposal Phrases:					
	Please refer to Section 7 for Storage and Section 13 for Disposal information.					



2.3		se Human Health and Symptoms:		rption. iratory system irritatio e, the toxicological pro	on. operties have no	t been thoroughly investigated.
CAS	#/	1	ion 3. Composition	Concentration		GHS Classification
RTECS # REACH Registra		REACH Registra			EC Index No.	
134-63-4  (-)-Lobeline hydroc    OJ8490100		(-)-Lobeline hydroch	loride	100.0 %	205-150-2 NA	Acute Tox.(0) 3: H301 Acute Tox.(I) 3: H331
			Section 4. Fi	rst Aid Measu	ires	
4.1	Measu	ption of First Aid res: e of Inhalation:	Remove to fresh air. If not bre	eathing, give artificial	respiration or give	ve oxygen by trained personnel.
			Get immediate medical attent	tion.		5 minutes. Remove contaminated
	clothing. Get medical attent			n if symptoms occur. eyes with plenty of wa	Wash clothing b	
	In Cas	e of Ingestion:	Wash out mouth with water p	rovided person is cor	-	ive anything by mouth to an ng unless directed to do so by
			Section 5. Fire	Fighting Mea	sures	
5.1	Suitab	le Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	l spray.
	Media:		Use water spray to cool fire-e	-		
	Unsuit Media:		A solid water stream may be	inefficient.		
5.2		able Properties an	<b>d</b> No data available.			
			No data available.			
	Flash I	Pt:	No data.			
	-	sive Limits:	LEL: No data.	UEL: No da	ta.	
	-	nition Pt:	No data.			
5.3	Fire Fi	gnting instructions	: As in any fire, wear self-conta equivalent), and full protectiv		-	
						Multi-region forma



	(	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.				
	-	Transfer to a chemical waste container for disposal in accordance with local regulations.			
	Up:				
		Section 7. Handling and Storage			
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.			
	•	Avoid prolonged or repeated exposure.			
7.2		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	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.			
		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 Physi	cal 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.			
	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)	No data.			
		Multi-region format			



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	Specific	Gravity (Water =	1): No data.				
	Solubility	y in Water:	No data.				
	Solubilit	y Notes:	~0.3 mg/ml in a 1:2 solution DMSO & DMF;	of DMSO:PBS (pH	7.2); ~2 mg/n	nl in EtOH; ~1	0 mg/ml in
	Octanol/	Water Partition	No data.				
	Coefficie	ent:					
	Autoigni	tion Pt:	No data.				
	Decomp	osition Temperat	ure: No data.				
	Viscosity	<b>/</b> :	No data.				
9.2	Other Info	ormation					
	Percent	Volatile:	No data.				
	Molecula	ar Formula & Weig	ght: C22H27NO2 • HCI 373	3.9			
			Section 10. Stability	and Reactiv	rity		
10.1	Reactivit	-	No data available.				
10.2	Stability	:	Unstable [ ] Stable [ X ]				
10.3	Stability	Note(s):	Stable if stored in accordance with	information listed of	n the product i	nsert.	
	Polymer	ization:	Will occur [ ] Will not occur [ X	[]			
10.4	Conditio	ns To Avoid:	No data available.				
10.5	Incompa	tibility - Materials	strong oxidizing agents				
	To Avoid	l:					
10.6	Hazardo	us	carbon dioxide				
	Decomp	osition or	carbon monoxide				
	Byprodu	cts:	hydrogen chloride gas				
			nitrogen oxides				
			Section 11. Toxicolog				
11.1	Informat		The toxicological effects of this proc		0,1		
	Toxicolo	gical Effects:	(–)-Lobelin (hydrochloride) - Toxicit Subcutaneous LD50 (mouse): 8750		-	-	
	Chronic	Toxicological	(-)-Lobelin (hydrochloride) - Investi	gated as a mutager	n, reproductive	e effector, and	tumorigen.
	Effects:		Only select Registry of Toxic Effects		tances (RTEC	S) data is pre	sented here.
			See actual entry in RTECS for com	•			
			(–)-Lobelin (hydrochloride) RTECS	Number: OJ849010	00		
CAS #			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
134	-63-4	(-)-Lobeline hydro	ochloride	n.a.	n.a.	n.a.	n.a.
			Section 12. Ecologi	cal Informati	on		
12.1	Toxicity:		Avoid release into the environment.				
			Runoff from fire control or dilution w	ater may cause po	llution.		
12.2	Persiste		No data available.				
	Degrada	bility:					
12.3	Bioaccu	mulative	No data available.				
	Potentia	l:					
12.4	Mobility	in Soil:	No data available.				
12.5	Results	of PBT and vPvB	No data available.				
	assessm	ient:					
12.6	Other ad	verse effects:	No data available.				
						Ν	lulti-region format



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3.1 Waste	Dianagal Mathady					
	Disposal Method.	Dispose in accordance with lo	cal, state, and federa	l regulations.		
		Section 14. Tra	nsport Informa	ation		
I4.1 LAND	TRANSPORT (US	DOT):				
DOT Prop	er Shipping Name	Alkaloid salts, solid, n.o.s.	(Lobeline hydrochlor	ride)		
DOT Hazard Class:		6.1 POISON				
UN/NA Number:		UN1544	Packing Group:		111	
		POISON 6				
	TRANSPORT (Eur					
	Shipping Name:		s. (Lobeline hydrochloride)			
UN Numbe		1544	Packing Gr	oup:	III	
Hazard Cla		6.1 - POISON				
			<u> </u>	· · · 、		
	A Shipping Name:	Alkaloid salts, solid, n.o.s		-	Ш	
UN Numbe		1544 6.4. DOISON	-	Packing Group: IATA Classification:		
Hazard Cla		6.1 - POISON			6.1	
Additional Tra		Transport in accordance with When sold in quantities of les E1, E2, E4, or E5, this item m Therefore packaging does no	s than or equal to 1 m eets the De Minimis (	nL, or 1 g, with an E Quantities exemption	on, per IATA 2.6.10.	
		Section 15. Reg	ulatory Informa	ation		
EPA SARA (S	uperfund Amendn	nents and Reauthorization Ac	t of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS) S. 304 RQ		S. 313 (TRI)	
134-63-4	(-)-Lobeline hydr	ochloride	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists	•	
134-63-4	(-)-Lobeline hydr		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	formation	This SDS was prepared in acc No.1272/2008.	cordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. O	ther Information	on		
Revision Date	:	02/08/2020				
Additional Info	ormation About	No data available.				
his Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information 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.				

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