

Revision: 05/21/2018

	Costion 1 L	ntification of the Cubatance Militime and of the	o Company/Indortal/ing				
	Section 1. Ide	entification of the Substance/Mixture and of the	ne Company/Undertaking				
1	Product Code:	23951					
	Product Name:	Levomilnacipran (hydrochloride)					
	Synonyms:	2R-(aminomethyl)-N,N-diethyl-1S-phenyl-cyclo	ppropanecarboxamide, monohydrochloride;				
	(1S,2R)-Milnacipran;						
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 numb						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
1	Classification of the Substar	nce or Mixture:					
	Serious Eye Damage/Eye I	rritation, Category 2					
•	Specific Target Organ Tox	rritation, Category 2 icity (single exposure), Category 3					
.2							
.2	Specific Target Organ Tox Label Elements:	icity (single exposure), Category 3					
2	Specific Target Organ Tox Label Elements: GHS Signal Word:						
2	Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases:	icity (single exposure), Category 3					
2	Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation.	icity (single exposure), Category 3 Warning					
2	Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye in	icity (single exposure), Category 3 Warning					
2	Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye in H335: May cause respiratory	icity (single exposure), Category 3 Warning					
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2	Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye in H335: May cause respiratory GHS Precaution Phrases: P261: Avoid breathing {dust	icity (single exposure), Category 3 Warning ritation. y irritation. /fume/gas/mist/vapors/spray}.					
2	Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye in H335: May cause respiratory GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thoroug	icity (single exposure), Category 3 Warning ritation. y irritation. /fume/gas/mist/vapors/spray}. ghly after handling.	on}.				
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2.3	2.3 Adverse Human Health Effects and Symptoms:		Causes serious eye irritation. Causes skin irritation.						
	Enects and Symptoms.		Causes skin irritation. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.						
			May cause respiratory syster	-	• • •				
					operties have not	t been thoroughly investigated.			
		Sect	tion 3. Composition	/Information	on Ingredie	nts			
	CAS # / Hazardous Comp RTECS # REACH Registrat		oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
			drochloride)	100.0 %	807-579-6 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336			
			Section 4. Fi	rst Aid Measu	ires				
4.1	Descrip	otion of First Aid							
	Measur	es:							
	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						
			-	dical attention. Do N	OT induce vomiti	ng unless directed to do so by			
<b></b>									
				<u> </u>					
5.1	Suitable Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-e		r, or dry chemical	spray.			
		able Extinguishing	A solid water stream may be	inefficient.					
5.2	Flammable Properties and No data available.								
	Hazard	•							
			No data available.						
	Flash P	t:	No data.						
	Explosi	ve Limits:	LEL: No data.	UEL: No da	ita.				
	Autoigr	nition Pt:	No data.						
5.3	Fire Fighting Instructions: 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.								
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5.2	Suitable Media: Unsuita Media: Flamma Hazarda Flash P Explosi Autoigr	e Extinguishing able Extinguishing able Properties an s: 't: 'te Limits: hition Pt:	Wash out mouth with water p unconscious person. Get med medical personnel. Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-e A solid water stream may be dNo data available. No data available. No data. LEL: No data. No data. s: As in any fire, wear self-conta	rovided person is co dical attention. Do N Fighting Mea carbon dioxide, wate exposed containers. inefficient. UEL: No da ained breathing appa	OT induce vomitin	emand (NIOSH approved or			



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	ç	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.
	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.):	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):	No data.
		Multi-region format



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	Creatific Creatity (Mater	4). No.	data					
	Specific Gravity (Water =	•	data.					
	Solubility in Water:		No data.					
	Solubility Notes:		~10 mg/ml in PBS (pH 7.2); ~33 mg/ml in EtOH & DMSO; ~20 mg/ml in DMF;					
	Octanol/Water Partition	No	data.					
	Coefficient:							
	Autoignition Pt:	No	data.					
	Decomposition Temperat	ure: No o	data.					
	Viscosity:	No	data.					
9.2	Other Information							
	Percent Volatile:	No	data					
	Molecular Formula & Wei		No data. C15H22N2O • HCl 282.8					
		Sect	ion 10. Stab	pility and	React	ivity		
10.1	0.1 Reactivity: No data available.							
10.2	2 Stability: Unstable [ ] Stable [ X ]							
10.3	.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.							
	Polymerization: Will occur [ ] Will not occur [ X ]							
10.4								
10.5	Incompatibility - Materials strong oxidizing agents							
	To Avoid:	<u> </u>	3 - 3					
10.6								
10.0	Decomposition or	carbon monoxide						
	-	nitrogen oxi						
	Byproducts:	phosgene	463					
<b>—</b>			<u> </u>					
		Sectio	on 11. Toxic	ological	Inform	ation		
11.1	Information on	The toxicol	ogical effects of thi	is product ha	ve not bee	en thoroughly st	udied.	
	Toxicological Effects:							
CAS	# Hazardous Com	ponents (Ch	nemical Name)		NTP	IARC	ACGIH	OSHA
1751	31-60-9 Levomilnacipran	(hydrochloric	Je)		n.a.	n.a.	n.a.	n.a.
						4:00		ļ
			tion 12. Eco		norma	tion		
12.1 Toxicity:			se into the environ					
		Runoff from	Runoff from fire control or dilution water may cause pollution.					
12.2	2.2 Persistence and		ailable.					
	Degradability:							
12.3	Bioaccumulative	No data available.						
	Potential:							
12.4			ailable.					
12.5	Results of PBT and vPvB							
	assessment:							
12.6	Other adverse effects:	No data ave	ailahla					
12.0	other auverse ellects.	No data available.						
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Multi-region format



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13.1 Waste Disposal Method: Dispose in accordance with local, state, and fe   Section 14. Transport Info   14.1 LAND TRANSPORT (US DOT):   DOT Proper Shipping Name: Not dangerous goods.	•					
14.1 LAND TRANSPORT (US DOT):	ormation					
<b>DOT Proper Shipping Name:</b> Not dangerous goods.						
DOT Hazard Class:						
14.1 LAND TRANSPORT (European ADR/RID):   ADR/RID Shipping Name: Not dangerous goods.						
UN Number:						
Hazard Class:						
14.3 AIR TRANSPORT (ICAO/IATA):						
ICAO/IATA Shipping Name: Not dangerous goods.						
Additional Transport Transport in accordance with local, state, and	I federal regulations.					
Information:						
Section 15. Regulatory Info	ormation					
EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists	5					
CAS # Hazardous Components (Chemical Name) S. 302 (EH	S) S. 304 RQ	S. 313 (TRI)				
175131-60-9 Levomilnacipran (hydrochloride) No	No	No				
CAS # Hazardous Components (Chemical Name) Other US E	ponents (Chemical Name) Other US EPA or State Lists					
	(hydrochloride) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Information   This SDS was prepared in accordance with 29	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)					
Statement: No.1272/2008.						
Section 16. Other Inform	nation					
<b>Revision Date:</b> 05/21/2018	05/21/2018					
Additional Information About No data available.						
This Product:						
Company Policy or Disclaimer: DISCLAIMER: This information is believed to	-					
•	currently available to us. However, we make no warranty of merchantability or any other warran express or implied, with respect to such information, and we assume no liability resulting from it use. Users should make their own investigations to determine the suitability of the information f					
their particular purposes.						