

Revision: 07/24/2018 Supersedes Revision: 01/27/2015

	according	to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830								
	Section 1. Ic	dentification of the Substance/Mixture and of th	ne Company/Undertaking							
1.1	Product Code: 16128									
	Product Name:	Levosimendan								
	Synonyms:	2-[2-[4-[(4R)-1,4,5,6-tetrahydro-4-methyl-6-oxo itrile; OR 1259; Simdax®; (R)-Simendan;	-3-pyridazinyl]phenyl]hydrazinylidene]-propanec							
.2	Relevant identified uses of the substance or mixture and uses advised against:									
	Relevant identified uses:	For research use only, not for human or veterin	nary 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 num									
	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							
	Classification of the Subst	ance or Mixture								
1	Classification of the Substance or Mixture:									
2.1	Aguta Taviaituu Inhalatia	Cotogory A	Acute Toxicity: Inhalation, Category 4							
2.1	-									
2.1	Acute Toxicity: Oral, Cate	egory 4								
	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate	egory 4								
2.1 2.2	Acute Toxicity: Oral, Cate	egory 4								
	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate	egory 4								
	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate	egory 4								
	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements:	egory 4 egory 4								
	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word:	egory 4 egory 4 Warning								
	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases:	egory 4 egory 4 Warning								
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	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H312: Harmful in contact w	egory 4 egory 4 Warning d. <i>v</i> ith skin.								
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	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H312: Harmful if swallowed H312: Harmful in contact w H332: Harmful if inhaled. GHS Precaution Phrases P261: Avoid breathing {dus P264: Wash {hands} thorot P280: Wear {protective glo GHS Response Phrases: P301+312: IF SWALLOWE P302+352: IF ON SKIN: W P304+340: IF INHALED: R P321: Specific treatment {s	egory 4 egory 4 wwarning d. //ith skin. : st/fume/gas/mist/vapours/spray}. ughly after handling. ves/protective clothing/eye protection/face protection ED: P312: Call a POISON CENTER or doctor/physi /ash with plenty of soap and water. temove victim to fresh air and keep at rest in a posi see on this label}.	ician if you feel unwell.							



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Adverse Human Health Harmful if inhaled, swallowed, or in contact with skin. 2.3 Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Section 3. Composition/Information on Ingredients CAS #/ EC No./ **GHS Classification** Hazardous Components (Chemical Name)/ Concentration **RTECS # REACH Registration No.** EC Index No. 141505-33-1 Propanedinitrile,2-[2-[4-[(4R)-1,4,5,6-tetrahydro-4-me 100.0 % 663-528-6 Acute Tox.(O) 4: H302 TY1570210 thyl-6-oxo-3-pyridazinyl]phenyl]hydrazinylidene]-NA Acute Tox.(I) 4: H332 Acute Tox.(D) 4: H312 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. Use water spray to cool fire-exposed containers. Media: Unsuitable Extinguishing A solid water stream may be inefficient. Media: 5.2 Flammable Properties and No data available. Hazards: No data available. Flash Pt: No data. **Explosive Limits:** LEL: No data. UEL: No data. Autoignition 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. 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, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** 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: 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.							
	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	ion 8. Exposure Controls/Personal Protection						
3.1	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.						
3.2.2	Personal protection equip	oment:						
	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 showe						
		Wash thoroughly after handling.						
		No data available.						
	Se							
ə.1		ection 9. Physical and Chemical Properties						
9.1		ection 9. Physical and Chemical Properties						
9.1	Information on Basic Phys	ection 9. Physical and Chemical Properties sical and Chemical Properties						
9.1	Information on Basic Phys Physical States:	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid						
9.1	Information on Basic Phys Physical States: Appearance and Odor:	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid						
9.1	Information on Basic Phys Physical States: Appearance and Odor: pH:	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data.						
9.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point:	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data.						
9.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point:	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data. No data.						
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9.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits:	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data. No data. No data. No data. LEL: No data. UEL: No data.						
9.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data.						
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9.1	Information on Basic Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air of Hg): Vapor Density (vs. Air = 1	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data.						
9.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air of Hg): Vapor Density (vs. Air = 1) Specific Gravity (Water =	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data.						
9.1	Information on Basic Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air of Hg): Vapor Density (vs. Air = 1) Specific Gravity (Water = Solubility in Water:	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data.						

Multi-region format



Multi-region format

	Autoignit	ion Pt:	No data							
	•	sition Temperatu	Ire: No data							
	Viscosity	:	No data	l <b>.</b>						
9.2	Other Info	rmation								
	Percent V	olatile:	No data	l <b>.</b>						
	Molecula	r Formula & Weig	<b>Jht:</b> C14H12	2N6O	280.3					
			Sectior	n 10.	Stabilit	ty and	Reactiv	vity		
10.1	Reactivity	/:	No data availab	ole.						
10.2	Stability: Unstable [ ] Stable [ X ]				le [ X ]					
10.3	Stability I	Note(s):	Stable if stored	in acco	ordance wit	h informa	tion listed o	n the product	insert.	
	Polymeriz	zation:	Will occur [ ]	Will	not occur [	[X]				
10.4	Condition	ns To Avoid:	No data availab	ole.						
10.5	Incompat	ibility - Materials	strong oxidizing	g agents	S					
	To Avoid	:								
10.6	Hazardou	IS	carbon dioxide							
	Decompo	sition or	carbon monoxid	de						
	Byproduc	cts:	nitrogen oxides	i						
			Section	11. T	Toxicolo	ogical	Informa	tion		
11.1	Informatio	on on				-	/e not been	thoroughly st	udied.	
11.1	Information Toxicolog		The toxicologica			-	ve not been	thoroughly st	udied.	
11.1 CAS #	Toxicolog	on on gical Effects: Hazardous Comp	The toxicologica	al effec	ts of this pr	-	ve not been	thoroughly st	udied.	OSHA
CAS #	<b>Toxicolog</b> # 05-33-1	<b>gical Effects:</b> Hazardous Comp Propanedinitrile,2	The toxicologica <b>Donents (Chem</b> -[2-[4-[(4R)-1,4,5	al effec <b>ical Na</b> 5,6-tetra	ts of this pr I <b>me)</b> ahydro-4-m	roduct hav	1			OSHA n.a.
CAS #	<b>Toxicolog</b> # 05-33-1	gical Effects: Hazardous Comp	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin	al effec <b>ical Na</b> 5,6-tetra ylidene	ts of this pr I <b>me)</b> ahydro-4-m ]-	nethyl-6-	NTP n.a.	n.a.	ACGIH	_
CAS #	<b>Toxicolog</b> # 05-33-1	<b>gical Effects:</b> Hazardous Comp Propanedinitrile,2	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin	al effec <b>ical Na</b> 5,6-tetra ylidene	ts of this pr I <b>me)</b> ahydro-4-m ]-	nethyl-6-	NTP	n.a.	ACGIH	_
<b>CAS</b> #	<b>Toxicolog</b> # 05-33-1	<b>gical Effects:</b> Hazardous Comp Propanedinitrile,2	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,4 phenyl]hydrazin <b>Sectior</b> Avoid release ir	al effect ical Na 5,6-tetra ylidene n 12.	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
<b>CAS</b> #	<b>Toxicolog</b> # 05-33-1	<b>gical Effects:</b> Hazardous Comp Propanedinitrile,2	The toxicologica ponents (Chem -[2-[4-[(4R)-1,4,5 phenyl]hydrazin Sectior	al effect ical Na 5,6-tetra ylidene n 12.	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
CAS # 14150	<b>Toxicolog</b> # 05-33-1	<b>gical Effects:</b> Hazardous Comp Propanedinitrile,2 oxo-3-pyridazinyl]	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,4 phenyl]hydrazin <b>Sectior</b> Avoid release ir	al effect ical Na 5,6-tetra ylidene n 12. nto the e contro	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
CAS # 14150	Toxicolog # 05-33-1 Toxicity:	yical Effects: Hazardous Comp Propanedinitrile,2 oxo-3-pyridazinyl]	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin <b>Sectior</b> Avoid release ir Runoff from fire	al effect ical Na 5,6-tetra ylidene n 12. nto the e contro	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
CAS # 14150 12.1 12.2	Toxicolog # 05-33-1 Toxicity: Persisten	gical Effects: Hazardous Comp Propanedinitrile,2 oxo-3-pyridazinyl] ce and pility:	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin <b>Sectior</b> Avoid release ir Runoff from fire	al effect ical Na 5,6-tetra ylidene 1 12. nto the contro ole.	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
CAS # 14150 12.1 12.2	Toxicolog # 05-33-1 Toxicity: Persisten Degradat	gical Effects: Hazardous Comp Propanedinitrile,2 oxo-3-pyridazinyl] ce and pility: nulative	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin <b>Sectior</b> Avoid release ir Runoff from fire No data availab	al effect ical Na 5,6-tetra ylidene 1 12. nto the contro ole.	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
	Toxicolog # 05-33-1 Toxicity: Persisten Degradat Bioaccun	gical Effects: Hazardous Comp Propanedinitrile,2 oxo-3-pyridazinyl] ce and pility: nulative	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin <b>Sectior</b> Avoid release ir Runoff from fire No data availab	al effect ical Na 5,6-tetra ylidene nto the contro ole.	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
CAS # 1415( 12.1 12.2 12.3 12.4	Toxicolog # 05-33-1 Toxicity: Persisten Degradat Bioaccun Potential: Mobility i	gical Effects: Hazardous Comp Propanedinitrile,2 oxo-3-pyridazinyl] ce and pility: nulative	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin <b>Sectior</b> Avoid release ir Runoff from fire No data availab No data availab	al effect ical Na 5,6-tetra ylidene n 12. n 12.	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
CAS # 1415( 12.1 12.2 12.3 12.4	Toxicolog # 05-33-1 Toxicity: Persisten Degradat Bioaccun Potential: Mobility i	yical Effects: Hazardous Comp Propanedinitrile,2 oxo-3-pyridazinyl] ce and pility: nulative n Soil: f PBT and vPvB	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin <b>Sectior</b> Avoid release ir Runoff from fire No data availab No data availab	al effect ical Na 5,6-tetra ylidene n 12. n 12.	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
CAS # 1415( 12.1 12.2 12.3 12.4 12.5	Toxicolog # 05-33-1 Toxicity: Persisten Degradat Bioaccun Potential: Mobility i Results o assessme	yical Effects: Hazardous Comp Propanedinitrile,2 oxo-3-pyridazinyl] ce and pility: nulative n Soil: f PBT and vPvB	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin <b>Sectior</b> Avoid release ir Runoff from fire No data availab No data availab	al effect ical Na 5,6-tetra ylidene 1 12. nto the contro ole. ole. ole.	ts of this pr ame) ahydro-4-m ]- Ecolog environme	nethyl-6- gical Ir	NTP n.a. nformati	IARC n.a. ON	ACGIH	_
CAS # 14150 12.1 12.2 12.3	Toxicolog # 05-33-1 Toxicity: Persisten Degradat Bioaccun Potential: Mobility i Results o assessme	gical Effects: Hazardous Comp Propanedinitrile,2 oxo-3-pyridazinyl] ce and pility: nulative n Soil: f PBT and vPvB ent:	The toxicologica <b>conents (Chem</b> -[2-[4-[(4R)-1,4,5 phenyl]hydrazin <b>Sectior</b> Avoid release ir Runoff from fire No data availab No data availab No data availab	al effect ical Na 5,6-tetra ylidene 1 12. nto the contro ole. ole. ole. ole. ole.	ts of this pr me) ahydro-4-m ]- Ecoloc environmen I or dilution	nethyl-6-	NTP n.a. nformationay cause po	IARC n.a. ON	ACGIH	_

# Cayman

## SAFETY DATA SHEET Levosimendan

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CHIMICAL				•	ersedes Revision: 01/27/2015				
		Section 14. Trans	sport Inform	ation					
14.1 LAND T	RANSPORT (US I	DOT):							
DOT Prope	er Shipping Name:	Not dangerous goods.							
DOT Hazar	d Class:								
UN/NA Nun	nber:								
	RANSPORT (Euro	. ,							
	hipping Name:	Not dangerous goods.							
UN Numbe									
Hazard Cla		IATA).							
	ANSPORT (ICAO/I Shipping Name:	Not dangerous goods.							
Additional Trai		Transport in accordance with loc	al state and fede	ral regulations					
Information:	nsport	Transport in accordance with loc		rai regulations.					
		Section 15. Regula	atory Inform	ation					
EPA SARA (Su	perfund Amendm	nents and Reauthorization Act o							
CAS #	-	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
141505-33-1	Propanedinitrile,2	2-[2-[4-[(4R)-1,4,5,6-tetrahydro-4-	No	No	No				
		yridazinyl]phenyl]hydrazinylidene							
	]-								
CAS #		ponents (Chemical Name)	Other US EPA o						
141505-33-1		P-[2-[4-[(4R)-1,4,5,6-tetrahydro-4- CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA   yridazinyl]phenyl]hydrazinylidene PROP.65: No							
	]-								
Regulatory Info	ormation	This SDS was prepared in accor	dance with 29 CFI	R 1910.1200 and R	egulation (EC)				
Statement:		No.1272/2008.							
		Section 16. Oth	er Informati	on					
Revision Date:		07/24/2018							
Additional Info	rmation About	No data available.							
This Product:									
Company Polic	y or Disclaimer:	DISCLAIMER: This information is		•					
		currently available to us. Howeve		-					
		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.							
					NA. 141 page 1 au 1 au				
					Multi-region form				