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		accor	ding to Regulation (EC) No. 190	7/2006 as amended by	/ (EC) No. 1272/200)8		
		Section 1. Id	lentification of the Substar	nce/Mixture and of	the Company/U	ndertaking		
1.1	Product	Code:	24060					
	Product	Name:	Emamectin B1a					
	Synony	ms:	(4"R)-5-O-demethyl-4"-de	eoxy-4"-(methylamin	o)-avermectin A1	a; L 656748;		
1.2	Relevan	t identified uses of	the substance or mixture a	nd uses advised a	gainst:			
	Releva	ant identified uses:	For research use only, no	ot for human or veter	rinary use.			
1.3	Details of	of the Supplier of th	e Safety Data Sheet:					
	Compa	any Name:	Cayman Chemical Comp	any				
			1180 E. Ellsworth Rd.					
			Ann Arbor, MI 48108					
		ite address:	www.caymanchem.com					
	Inform		Cayman Chemical Comp	bany	+1 (73-	4)971-3335		
1.4	-	ncy telephone num						
	Emerg	ency Contact:	CHEMTREC Within USA			0)424-9300		
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887		
			Section 2. Haz	zards Identific	cation			
2.1	Classifie	cation of the Substa	ince or Mixture:					
2.2	Label El	ements:						
	GHS S	GHS Signal Word: None						
	GHS H	lazard Phrases:						
	Based	on evaluation of curr	ently available data this sub	stance or mixture is	not classifiable ac	cording to GHS.		
	GHS F	Precaution Phrases:				-		
	No ph	rases apply.						
GHS Response Phrases:								
	No phrases apply.							
	GHS Storage and Disposal Phrases:							
	Please refer to Section 7 for Storage and Section 13 for Disposal information.							
2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.						spiratory tract.		
			May be harmful by inhalation					
	May cause eye, skin, or respiratory system irritation.							
		-	To the best of our knowledge	e, the toxicological pr	operties have not	been thoroughly investigated.		
		Sectio	on 3. Composition	/Information of	on Ingredie	nts		
CAS	#/	Hazardous Compo	nents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTE	CS #	REACH Registratio	on No.		EC Index No.			
1211	24-29-6	Emamectin B1a		100.0 %	NA	No data available.		
NA					NA			

Multi-region format



Revision: 02/24/2018

		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 an Hazards:	dNo 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 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 Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.			
	in Handling:	Avoid prolonged or repeated exposure.			
7.2	Precautions To Be Taker	Keep 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:				

Multi-region format



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Controls: ing Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne on etc.): levels below recommended exposure limits. protection equipment: ection: Safety glasses e Gloves: Compatible chemical-resistant gloves otective Clothing:Lab coat bry Equipment NIOSH approved respirator, as conditions warrant. Type): glenic/Maintenan Do not take internally. ces: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties states: []Gas []Liquid [X]Solid nce and Odor: A solid No data. 'oint: No data. 'iilty (solid, gas): No data available. UEL: No data. UEL: No data. 'iilty (solid, gas): LEL: No data. UEL: No data. 'iilty (solid, gas): LEL: No data. 'iint: LEL: No dat
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ensity (vs. Air = 1): No data.
Gravity (Water = 1): No data.
y in Water: No data.
/ Notes: Soluble in: EtOH; MeOH; DMSO; DMF;
Water Partition No data.
nt:
tion Pt: No data.
osition Temperature: No data.
n: No data.
ormation
Volatile: No data.
r Formula & Weight: C49H75NO13 886.1

Multi-region format



Multi-region format

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10.1	Reactivit	y:	No data available.					
10.2	Stability	:	Unstable [] Stable [X]					
10.3 Stability Note(s):			Stable if stored in accordance with information listed on the product insert.					
	Polymer	ization:	Will occur [] Will not occur [X					
10.4 Conditions To Avoid:			No data available.					
10.5 Incompatibility - Materials strong oxidizing agents								
To Avoid:								
10.6	Hazardous		carbon dioxide					
	Decomposition or		carbon monoxide					
	Byprodu	cts:	nitrogen oxides					
			Section 11. Toxicolog	ical Informa	ation			
11.1	Informat	ion on	The toxicological effects of this prod	uct have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1211	<u></u>							
	24-29-6	Emamectin B1a		n.a.	n.a.	n.a.	n.a.	
	24-29-6	Emamectin B1a	Section 12. Ecologic			n.a.	n.a.	
12.1			Section 12. Ecologic			n.a.	n.a.	
12.1	24-29-6 Toxicity:		Avoid release into the environment.	al Informat	ion	n.a.	n.a.	
12.1				al Informat	ion	n.a.	n.a.	
	Toxicity:	nce and	Avoid release into the environment. Runoff from fire control or dilution w	al Informat	ion	n.a.	n.a.	
	Toxicity: Persiste	nce and bility:	Avoid release into the environment. Runoff from fire control or dilution w	al Informat	ion	n.a.	n.a.	
12.2	Toxicity: Persister Degrada	nce and bility: mulative	Avoid release into the environment. Runoff from fire control or dilution w No data available.	al Informat	ion	n.a.	n.a.	
12.2	Toxicity: Persister Degrada Bioaccur	nce and bility: mulative I:	Avoid release into the environment. Runoff from fire control or dilution w No data available.	al Informat	ion	n.a.	n.a.	
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12.2 12.3 12.4	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available.	al Informat	ion	n.a.	n.a.	
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12.2 12.3 12.4 12.5 12.6	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transpo	al Informat ater may cause p ter may cause p ter may cause p ate, and federal r	ion ollution. ions egulations.	n.a.	n.a.	
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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Transport in accordance with local, state, and federal regulations.

Information:

Additional Transport

Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
121124-29-6 Emamectin B1a			No	No	No	
CAS # Hazardous Com		nponents (Chemical Name) Other US EPA or State Lists				
121124-29-6	Emamectin B1a		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 Information	า		
Revision Date:		02/24/2018				
Additional Information About		No data available.				
This 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.				