

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008							
	Section 1. Ide	entification of the Substance/Mixture and of th	ne Company/Undertaking					
1.1	Product Code:	15405						
	Product Name:	Amikacin						
	Synonyms:		O-[6-amino-6-deoxy-a-D-glucopyranosyl-(1?4)]-					
			1-[(2S)-4-amino-2-hydroxy-1-oxobutyl]-2-deoxy-D-streptamine; BB-K 8; BAY 41-6551; Lukadin;					
	Potentox; Antibiotic BB-K 8;							
.2	Relevant identified uses of the substance or mixture and uses advised against:							
	<b>Relevant identified uses:</b> For research use only, not for human or veterinary use.							
.3	Details of the Supplier of the	e Safety Data Sheet:						
	Company Name:	Cayman Chemical Company						
		1180 E. Ellsworth Rd.						
	Mah alta address.	Ann Arbor, MI 48108						
	Web site address:	www.caymanchem.com	.1 (724)074 2225					
	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					
	Classification of the Substan Classification according to	nce or Mixture: Regulation (EC) No 1272/2008 [CLP]:						
	Classification according to Serious Eye Damage/Eye I	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A						
	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2						
2.1.1	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A						
2.1 2.1.1 2.2 2.2 2.2.1	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements:	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2						
2.1.1 2.2	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements:	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 xicity (repeated exposure), Category 1						
2.1.1 2.2	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements:	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 xicity (repeated exposure), Category 1						
2.1.1	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 xicity (repeated exposure), Category 1 Ilation (EC) No 1272/2008 [CLP]:						
2.1.1 2.2	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu GHS Signal Word:	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 exicity (repeated exposure), Category 1 ellation (EC) No 1272/2008 [CLP]:						
2.1.1	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases:	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 xicity (repeated exposure), Category 1 Ilation (EC) No 1272/2008 [CLP]: Danger						
2.1.1	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye irri H361: Suspected of damaging	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 xicity (repeated exposure), Category 1 Ilation (EC) No 1272/2008 [CLP]: Danger	sure.					
2.1.1 2.2	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye irri H361: Suspected of damaging	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 exicity (repeated exposure), Category 1 ellation (EC) No 1272/2008 [CLP]: Danger	sure.					
2.1.1	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu Official Contents Cause Serious eye irri H361: Suspected of damaging H372: Causes damage to org GHS Precaution Phrases: P264: Wash {hands} thorough	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 exicity (repeated exposure), Category 1 ellation (EC) No 1272/2008 [CLP]: Danger itation. g fertility or the unborn child. ans {kidney} through prolonged or repeated exposence only after handling.						
2.1.1 2.2	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu Control Content Content of Content Content of Content Content of Content Content of Content of Content Content of Content of Content Content of Content of Content of Content Content of Content of Content of Content of Content Content of Content of C	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 ixicity (repeated exposure), Category 1 ilation (EC) No 1272/2008 [CLP]: Danger itation. g fertility or the unborn child. ans {kidney} through prolonged or repeated exposence hly after handling.						
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2.1.1 2.2	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu Official Content of Second GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye irrit H361: Suspected of damaging H372: Causes damage to org GHS Precaution Phrases: P264: Wash {hands} thorough P280: Wear {protective gloves P201: Obtain special instruction P202: Do not handle until all se	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 exicity (repeated exposure), Category 1 alation (EC) No 1272/2008 [CLP]: Danger Itation. g fertility or the unborn child. ans {kidney} through prolonged or repeated exposently after handling. s/protective clothing/eye protection/face protection ons before use. safety precautions have been read and understoo	n}.					
2.1.1	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu Control Control Control Control Control GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye irrite H361: Suspected of damaging H372: Causes damage to org GHS Precaution Phrases: P264: Wash {hands} thorough P280: Wear {protective gloves: P201: Obtain special instruction P202: Do not handle until all se P281: Use personal protective	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 exicity (repeated exposure), Category 1 ellation (EC) No 1272/2008 [CLP]: Danger Itation. g fertility or the unborn child. ans {kidney} through prolonged or repeated exposu- hly after handling. s/protective clothing/eye protection/face protection ons before use. safety precautions have been read and understoo e equipment as required.	n}.					
2.1.1	Classification according to Serious Eye Damage/Eye I Toxic To Reproduction, Ca Target Organ Systemic To Label Elements: Labeling according to Regu Official Content of Second GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye irrit H361: Suspected of damaging H372: Causes damage to org GHS Precaution Phrases: P264: Wash {hands} thorough P280: Wear {protective gloves P201: Obtain special instruction P202: Do not handle until all se P281: Use personal protective P260: Do not breathe {dust/fut	Regulation (EC) No 1272/2008 [CLP]: Irritation, Category 2A ategory 2 exicity (repeated exposure), Category 1 ellation (EC) No 1272/2008 [CLP]: Danger Itation. g fertility or the unborn child. ans {kidney} through prolonged or repeated exposu- hly after handling. s/protective clothing/eye protection/face protection ons before use. safety precautions have been read and understoo e equipment as required.	n}.					
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# Cayman

## SAFETY DATA SHEET Amikacin

P337+313: If eye irritation persists, get medical advice/attention. P308+313: IF exposed or concerned: Get medical attention/advice.								
	P314: Get medical attention/advice if you feel unwell. GHS Storage and Disposal Phrases:							
			or Storage and Section 13 for E	-				
2.3		e Human Health	Causes damage to organs {k		nged or repeated	d exposure.		
	Effects	and Symptoms:	Causes serious eye irritation.					
			Material may be irritating to the			spiratory tract.		
			May be harmful by inhalation		sorption.			
			May cause skin or respiratory system irritation.					
			Suspected of damaging fertility or the unborn child. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
		0			-			
		1	tion 3. Composition			1		
CAS RTE(		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
37517-28-5 A WK1955000		Amikacin		100.0 %	253-538-5 NA	Eye Damage 2A: H319 Toxic Repro. 2: H361 TOST (RE) 1: H372		
		ł		ł	•	+		
			Section 4. Fi	rst Aid Measu	res			
4.1	Descrip	tion of First Aid	No data available.					
	Measur	es:						
	In Case	of Inhalation:	Remove to fresh air. If not bre	eathing, give artificial	respiration or give	ve oxygen by trained personnel.		
			Get immediate medical attent					
	In Case	of Skin Contact:	Immediately wash skin with s	skin with soap and plenty of water for at least 15 minutes. Remove contaminated				
	In Case of Eye Contact: In Case of Ingestion:		clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
			Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined					
			and tested by medical personnel.					
			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 Mea	sures			
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	l spray.		
	Media:		Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishing A solid water stream may be inefficient.							
	Media:							
5.2	Flammable Properties andNo data available.							
	Hazards:							
	Flash Pt:		No data.					
	Explosi	ve Limits:	LEL: No data.	UEL: No da	ta.			
	Autoignition Pt:		No data.					
5.3	Fire Fig	hting 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.					



Multi-region format

			Section 6. Ac	cidental Release	e Measures				
6.1	Protect	ive Precautions,	Avoid raising and bre	eathing dust, and provide	adequate ventilation.				
	Protect	ive Equipment and	d As conditions warran	t, wear a NIOSH approv	ed self-contained breathing a	apparatus, or respirator,			
	Emerge	ency Procedures:	and appropriate pers	onal protection (rubber b	oots, safety goggles, and he	avy rubber gloves).			
6.2	Enviror	mental	Take steps to avoid r	elease into the environm	ent, 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 S	Storage				
7.1	.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.								
	in Hand	lling:	Avoid prolonged or re	epeated exposure.					
7.2	Precaut	ions To Be Taken	Keep container tightly	/ closed.					
	in Stori	ng:	Store in accordance v	with information listed on	the product insert.				
		Sec	tion 8. Exposu	re Controls/Pers	sonal Protection				
8.1	Exposu	e Parameters:							
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe			
3751	7-28-5	Amikacin		No data.	No data.	No data.			
CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits			
3751	7-28-5	Amikacin		No data.	No data.	No data.			
8.2	Exposu	re Controls:		ł	ł	<b>I</b>			
8.2.1	Engine	ering Controls	Use process enclosu	res, local exhaust ventila	tion, or other engineering co	ntrols to control airborne			
	(Ventila	tion etc.):	levels below recomm	ended exposure limits.					
8.2.2	Person	al protection equi	pment:						
	Eye Pro	tection:	Safety glasses						
	Protect	ive Gloves:	Compatible chemical	al-resistant gloves					
	Other P	rotective Clothing	<b>j:</b> Lab coat						
	Respiratory Equipment NIO		NIOSH approved respirator, as conditions warrant.						
	(Specify	у Туре):							
			Do not take internally.						
	Wa		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					
nformation on Basic Physical and Chemical Properties					
[]Gas []Liquid [X]Solid					
A crystalline solid					
No data. No data.					
					ta.
No data. No data. ~5 mg/ml in PBS (pH 7.2);					
No data.					
:: C22H43N5O13 585.6					
Unstable [ ] Stable [ X ] Stable if stored in accordance with information listed on the product insert.					
Will occur [ ]     Will not occur [ X ]					
No data available.					
Is strong oxidizing agents					
n dioxide n monoxide					
nitrogen oxides Section 11. Toxicological Information					
The toxicological effects of this product have not been thoroughly studied.					
acin - Toxicity Data: Oral LD50 (mouse): >6 gm/kg; Intraperitoneal LD50 (mouse): 750 mg/kg;					
utaneous LD50 (mouse): 6200 mg/kg;					
Amikacin - Investigated as a mutagen and reproductive effector.					
Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.					
e actual entry in RTECS for complete information. nikacin RTECS Number: WK1955000					



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		Section 12. Ecolo	gical Informa	tion	
12.1 Toxicity:		Avoid release into the environme	ent.		
		Runoff from fire control or dilutio	n water may cause	pollution.	
12.2 Persister	nce and	No data available.			
Degrada	bility:				
12.3 Bioaccur	nulative	No data available.			
Potential	Potential:				
12.4 Mobility	Mobility in Soil: No data available.				
12.5 Results of					
assessm	ent:				
		Section 13. Dispos	al Considera	tions	
13.1 Waste Di	1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.				
		Section 14. Trans	sport Informa	tion	
14.1 LAND TH	RANSPORT (US	DOT):			
	<sup>r</sup> Shipping Name	Not dangerous goods.			
DOT Hazard					
UN/NA Num	iber:				
	-	opean ADR/RID):			
	hipping Name:	Not dangerous goods.			
UN Number Hazard Clas					
		AT A \.			
	NSPORT (ICAO/ Shipping Name:	Not dangerous goods.			
Additional Tran		Transport in accordance with loc	al state and foder		
Information:	ispon	Transport in accordance with loc		a regulations.	
		Section 15. Regul	atory Informa	ition	
		Ŭ	•		
· · · ·		nents and Reauthorization Act o	-		<b>.</b>
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
37517-28-5	Amikacin		No	No	No
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	
37517-28-5 Amikacin			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
		TI: 000		40404000	
Regulatory Info	rmation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.			
Statement:					
		Section 16. Oth	er informatio	n	
Revision Date:		12/15/2014			
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			
		onpross or implied, with respect			
					Multi-region forma

use. Users should make their own investigations to determine the suitability of the information for their particular purposes.