

1.1	A 1 1 1 1	ding to Regulation (EC) No. 1907/2006 as amended by (EC	,
1.1	Section 1. Ide	entification of the Substance/Mixture and of the	Company/Undertaking
	Product Code: Product Name: Synonyms:	14160 Acyclovir 2-amino-1,9-dihydro-9-[(2-hydroxyethoxy)met NSC 645011;	thyl]-6H-purin-6-one; ACV; BW 248U;
.2	Relevant identified uses	of the substance or mixture and uses advis	ed against:
		For research use only, not for human or veter	-
1.3	Details of the Supplier of Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	
	Web site address: Information:	www.caymanchem.com Cayman Chemical Company	+1 (734)971-3335
1.4	Emergency telephone nu Emergency Contact:	Imber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identification	ion
2.1.2 2.2 2.2.1	Xi: Irritant N: Dangerous for the environment Risk Phrases: R36/37/38, R52/53 For full text of R- phrases: see SECTION 15. 2 Label Elements:		



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2.2.2	P305+3 present P337+3 P309+3 P304+3 GHS St Please Labeli Xi	351+338: IF IN E t and easy to do. 313: If eye irritatio 311: Call a POIS 340: IF INHALED torage and Disp refer to Section	on occurs, get medical advi YES: Rinse cautiously with Continue rinsing. on persists, get medical adv ON CENTER or doctor/phys : Remove victim to fresh air sosal Phrases: 7 for Storage and Section 13 5 Directive 1999/45/EC:	water for several m ice/attention. sician if exposed or and keep at rest in	you feel unwel n a position con	Ι.	
2.2.2	Please Labeli	refer to Section	7 for Storage and Section 1	3 for Disposal infor	mation.		
2.2.2	Labeli Xi		-	3 for Disposal infor	mation.		
2.3	Xi	N n n n n n n n n n n n n n n n n n n n	Directive 1999/45/EC:				
-	Advers						
I		se Human Healtl	n Causes skin irritation.				
	Effects	and Symptoms	:Causes serious eye irritati				
			Harmful to aquatic life with Material may be irritating t May be harmful by inhalat May cause respiratory irrit To the best of our knowled investigated.	to the mucous men ion, ingestion, or s tation.	nbranes and up kin absorption.		
		Sec	tion 3. Composition	/Information of	on Ingredie	nts	
CAS # / RTECS		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification	
59277- UP07914		Acyclovir		100.0 %	261-685-1 NA	Xi;N; R36/37/38-52/53 Skin Corr. 2: H315 Eye Damage 2A: H319 TOST (SE) 3: H335 H336 Aquatic (C) 3: H412	
			Section 4. Fi	rst Aid Measu	ires		
	Description of First Aid Measures:						
I	In Case of Inhalation: In Case of Skin Contact: In Case of Eye Contact:		 Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. 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. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel. 				
I	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.				



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			Section 5.	Fire Fighting M	leasures		
5.1	Suitable	e Extinguishing	Use alcohol-resista	nt foam, carbon dioxid	de, water, or dry chemica	al spray.	
	Media:	0 0		cool fire-exposed con			
	Unsuita	ble	A solid water strear	n may be inefficient.			
	Extingu	ishing Media:					
5.2		-	No data available.				
	and Haz		N 1 1 <i>i</i>				
	Flash P		No data.		NI: Jata		
	-	ve Limits:	LEL: No data.	UEI	.: No data.		
	-	nition Pt:	No data.				
5.3	Fire Fig	-	•		ing apparatus pressure- ve gear to prevent conta		
			Section 6. Acc	cidental Release	e Measures		
6.1			· •	•	ovide adequate ventilation		
		ive Equipment			proved self-contained b	0 11	
	and Em Proced	ergency	respirator, and app rubber gloves).	propriate personal prot	tection (rubber boots, sa	fety goggles, and hea	
5.2	Environ		e ,	d release into the envi	ironment, if safe to do so)	
	Precaut					~	
6.3	Method	s and Material	Contain spill and co	ollect, as appropriate.			
		ntainment and	Transfer to a chem	ical waste container f	or disposal in accordanc	e with local regulation	
	Cleanin	g Up:					
			Section 7.	Handling and	Storage		
7.1	Precaut	ions To Be	Avoid breathing due	st/fume/gas/mist/vapo	urs/spray.		
			Avoid prolonged or repeated exposure.				
7.2		ions To Be	Keep container tightly closed.				
	Taken I	n Storing:	Store in accordance	ance with information listed on the product insert.			
		Sec	ion 8. Exposu	re Controls/Per	sonal Protection		
3.1	Exposu	re Parameters:					
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe	
5927	77-89-3	Acyclovir		No data.	No data.	No data.	
CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits	
5927	77-89-3	Acyclovir		No data.	No data.	No data.	
8.2	•	re Controls:					
3.2.1	Engineering ControlsUse process enclosures, local exhaust ventilation, or other engineering controls(Ventilation etc.):control airborne levels below recommended exposure limits.		eering controls to				
3.2.2	Persor	al protection e	quipment:				
	•	tection:	Safety glasses				
		ive Gloves:	Compatible chemical-resistant gloves Lab coat				
	Other P Clothing	rotective g:					
	Respira (Specify	• • •	t NIOSH approved re	espirator, as condition	s warrant.		
			Do not take interna	lly.			
		actices:		•	should be equipped with	an eyewash and a	
						Multi-region for	

Multi-region format



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		safety shower.		
		Wash thoroughly after handling.		
	S	ection 9. Physical and Chemical Properties		
9.1	Information on Basic Physical and Chemical Properties			
	Physical States:	[]Gas []Liquid [X]Solid		
	Appearance and Odor:			
	Melting Point:	No data.		
	Boiling Point:	No data.		
	Flash Pt:	No data.		
	Evaporation Rate:	No data.		
	Explosive Limits:	LEL: No data. UEL: No data.		
	Vapor Pressure (vs. Ai mm Hg):	ir or No data.		
	Vapor Density (vs. Air	= 1): No data.		
	Specific Gravity (Wate	-		
	Solubility in Water:	No data.		
	Solubility Notes:	~0.2 mg/ml in PBS (pH 7.2); ~16 mg/ml in DMSO; ~1 mg/ml in DMF;		
	Autoignition Pt:	No data.		
9.2	Other Information			
	Percent Volatile:	No data.		
	Molecular Formula & V	Veight: C8H11N5O3 225.2		
		Section 10. Stability and Reactivity		
10.1	Reactivity:	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.		
	Polymerization:	Will occur [] Will not occur [X]		
10.4	Conditions To Avoid:	No data available.		
10.5	Incompatibility - Materials To Avoid:	No data available.		
10.6	Hazardous Decomposition Or Byproducts:	No data available.		
	Byproducts:			
		Multi-region for		



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				www.cal_intorm	1911/01	
			Section 11. Toxico	<u> </u>		
11.1		ogical Effects:	The toxicological effects of Acyclovir - Toxicity Data: O (woman): 28 mg/kg/2D (inter Oral TDLO (man): 486 mg/l (intermittent); Intravenous T > 20 mg/kg; Intraperitoneal Intravenous LD50 (rat): 750 LD50 (mouse): 724 mg/kg; (mouse): 400 mg/kg;	ral TDLO (child): 3 (ermittent); Oral TDL (g/17D (intermittent DLO (woman): 101 LD50 (rat): 860 mg mg/kg; Oral LD50 Subcutaneous LD5	gm/kg/22W (inter O (woman): 12 n); Intravenous TE mg/kg/2D (inter /kg; Subcutaneou (mouse): > 10 m 0 (mouse): 1118	mittent); Oral TDLO ng/kg/1D (intermittent); DLO (man): 134 μg/kg/1 mittent); Oral LD50 (rat) us LD50 (rat): 620 mg/k g/kg; Intraperitoneal mg/kg; Intravenous LD
	Chronic Effects:	Toxicological	Acyclovir - Investigated as a Only select Registry of Tox here. See actual entry in R Acyclovir RTECS Number:	c Effects of Chemic TECS for complete	cal Substances (F	•
Carciı	nogenicit	ty:	NTP? No IARC Monog	graphs? No OS	SHA Regulated?	No
			Section 12. Ecol	ogical Informa	ition	
12.1	Toxicity	:	Avoid release into the envir Runoff from fire control or c		ause pollution.	
			Section 13. Dispo	sal Considera	tions	
	Wasta D	isposal	Dispose in accordance with	local, state, and fe	deral regulations	
3.1	Method:	-				
14.1	Method:	TRANSPORT (L		nsport Informa	ition	
14.1 Do UI 14.1 AI UI Ha 14.3 IC Addit	Method: LAND T OT Prope OT Hazar N/NA Nur LAND T DR/RID S N Numbe azard Cla AIR TR	TRANSPORT (Ler Shipping Nar ed Class: mber: TRANSPORT (E shipping Name: er: ess: ANSPORT (ICA Shipping Name)	JS DOT): me: Not dangerous goods. European ADR/RID): Not dangerous goods. AO/IATA): e: Not dangerous goods. Transport in accordance wi	th local, state, and	federal regulatior	ns.
14.1 Di UI 14.1 AI UI Ha 14.3 IC Addit	Method: LAND T OT Prope OT Hazar N/NA Nur LAND T DR/RID S N Numbe azard Cla AIR TR AO/IATA tional Tra mation:	TRANSPORT (Ler Shipping Nar d Class: mber: TRANSPORT (E hipping Name: er: ess: ANSPORT (ICA Shipping Name nsport	JS DOT): ne: Not dangerous goods. European ADR/RID): Not dangerous goods. AO/IATA): e: Not dangerous goods. Transport in accordance with Section 15. Regu	th local, state, and Ilatory Informa	federal regulatior	1S.
Do Ul 14.1 Ul Ha 14.3 IC Addit Inforr	Method: LAND T OT Prope OT Hazar N/NA Nur LAND T DR/RID S N Numbe azard Cla AIR TR CAO/IATA tional Tra mation:	TRANSPORT (Ler Shipping Nar rd Class: mber: TRANSPORT (E shipping Name: er: ass: ANSPORT (ICA Shipping Nam ansport	JS DOT): me: Not dangerous goods. European ADR/RID): Not dangerous goods. AO/IATA): e: Not dangerous goods. Transport in accordance with Section 15. Regularity ments and Reauthorization Act	th local, state, and Ilatory Informa	federal regulation	
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14.1 D(UI 14.1 AI 14.3 IC Addit Inforr EPA \$ CAS #	Method: LAND T OT Prope OT Hazar N/NA Nur LAND T DR/RID S N Numbe azard Cla AIR TR CAO/IATA tional Tra mation: SARA (Sup # 7-89-3	TRANSPORT (Ler Shipping Nar rd Class: mber: TRANSPORT (E shipping Name: er: ass: ANSPORT (ICA Shipping Nam ansport Derfund Amendm Hazardous Com Acyclovir	JS DOT): me: Not dangerous goods. European ADR/RID): Not dangerous goods. AO/IATA): e: Not dangerous goods. Transport in accordance with Section 15. Regularity ments and Reauthorization Act	th local, state, and Ilatory Informa of 1986) Lists S. 302 (EHS)	federal regulation ation S. 304 RQ No	S. 313 (TRI)



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European Community Hazard Symbol codes:				
	Xi N			
European Community Ris	sk and Safety Phrases:			
R36/37/38	Irritating to eyes, respiratory system and skin.			
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic			
	environment.			
S22	Do not breathe dust.			
S24/25	Avoid contact with skin and eyes.			
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.			
Regulatory Information Statement:	This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.			
	Section 16. Other Information			
Revision Date:	12/16/2013			
Additional Information Ab				
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.			
	N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required			
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