

Revision: 09/11/2015

	acco	ording to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008					
	Section 1. Identification of the Substance/Mixture and of the Company/Undertaking							
1.1	Product Code:	18356						
	Product Name:	COX-2 (ovine recombinant)						
1.2	Relevant identified uses of	f the substance or mixture and uses advised ag	jainst:					
	Relevant identified uses:	For research use only, not for human or veter	inary 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	nber:						
	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					
2.1	Classification of the Subst	ance or Mixture:						
	Skin Corrosion/Irritation	, Category 3						
	Serious Eye Damage/Eye	e Irritation, Category 2						
	Skin Sensitization, Cate	gory 1						
2.2	Label Elements:							
	$\wedge$							
	GHS Signal Word:	Warning						
	GHS Hazard Phrases:							
	H316: Causes mild skin irritation.							
	H317: May cause an allergic skin reaction.							
	H319: Causes serious eye irritation.							
	GHS Precaution Phrases:							
	P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.							
	P264: Wash {hands} thoroughly after handling.							
	P272: Contaminated work clothing should not be allowed out of the workplace.							
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
	GHS Response Phrases:							
	P302+352: IF ON SKIN: Wash with plenty of soap and water.							
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.							
	-	occurs, get medical advice/attention.						
		or rash occurs, seek medical advice/attention.						
		persists, get medical advice/attention.						
	P363: Wash contaminated	I clothing before reuse.						
	GHS Storage and Dispos	sal Phrases:						
	Please refer to Section 7 f	or Storage and Section 13 for Disposal information	).					



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2.3	Adverse Human Health	Causes mild skin irritation.
	Effects and Symptoms:	Causes serious eye irritation.
		Material may be irritating to the mucous membranes and upper respiratory tract.
		May be harmful by inhalation, ingestion, or skin absorption.
		May cause an allergic skin reaction.
		May cause respiratory system irritation.
		To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

# Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	COX-2 (ovine recombinant)	< 1.0 %	NA NA	No data available.
77-86-1 TY2900000	Trizma base	0.97 %	201-064-4 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335
7732-18-5 ZC0110000	Water	88.925 %	231-791-2 NA	No data available.
56-81-5 MA8050000	Glycerol	10.0 %	200-289-5 NA	Skin Corr. 3: H316 Eye Damage 2B: H320
9005-64-5 TR7400000	Polyoxyethylenesorbitan Monolaurate (polysorbate 20; Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivatives)	0.1 %	500-018-3 NA	Skin Sens. 1: H317 Eye Damage 2A: H319
7481-89-2 HA3870000	2',3'-Dideoxycytidine(ddc)	0.005 %	NA NA	Carcinogen 2: H351 Toxic Repro. 2: H361

## 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.



				Measures			
5.1	Suitab	e Extinguishing Use alcohol-	resistant foam, carbon dioxide,	water, or dry chemical spray.			
	Media:	Use water sp	pray to cool fire-exposed contai	ners.			
		able Extinguishing A solid wate	r stream may be inefficient.				
_	Media:						
		able Properties and Emits toxic fumes under fire conditions.					
	Hazard	s: No data ava	ilahla				
			liadie.				
	Flash F						
	-	Explosive Limits:     LEL: No data.     UEL: No data.					
· -	-	nition Pt: No data.					
				elf-contained breathing apparatus pressure-demand (NIOSH approved or protective gear to prevent contact with skin and eyes.			
		Section	6. Accidental Relea	se Measures			
5.1			hing vapors and provide adequa				
		tive Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator					
Emerg		ency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).					
		<b>Imental</b> Take steps to avoid release into the environment, if safe to do so.					
.2		•	to avoid release into the enviro				
	Precau	tions:					
	Precau Method	tions: Is and Material For Contain spil	l and collect, as appropriate.				
	Precau Method Contai	tions:	l and collect, as appropriate.		cal regulations.		
	Precau Method	tions: Is and Material For Contain spil nment and CleaningTransfer to a	l and collect, as appropriate. a chemical waste container for	disposal in accordance with lo	cal regulations.		
5.3	Precau Methoo Contai Up:	tions: ds and Material For Contain spil nment and CleaningTransfer to a Sect	l and collect, as appropriate. a chemical waste container for tion 7. Handling and	disposal in accordance with loo	cal regulations.		
5.3	Precau Method Contai Up: Precau	tions: ds and Material For Contain spil nment and CleaningTransfer to Sect tions To Be Taken Avoid breath	I and collect, as appropriate. a chemical waste container for tion 7. Handling and	disposal in accordance with loo	cal regulations.		
5.3 7.1	Precau Method Contai Up: Precau in Han	tions: ds and Material For Contain spil nment and CleaningTransfer to Sect tions To Be Taken Avoid breath Avoid prolon	I and collect, as appropriate. a chemical waste container for tion 7. Handling and hing dust/fume/gas/mist/vapours nged or repeated exposure.	disposal in accordance with loo	cal regulations.		
5.3	Precau Method Contai Up: Precau in Hand Precau	tions: ds and Material For Contain spil nment and CleaningTransfer to Sect tions To Be Taken Avoid breath dling: Avoid prolon tions To Be Taken Keep contain	I and collect, as appropriate. a chemical waste container for tion 7. Handling and ning dust/fume/gas/mist/vapours nged or repeated exposure. ner tightly closed.	disposal in accordance with loo I Storage s/spray.	cal regulations.		
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5.2 5.3 7.1 7.2	Precau Method Contai Up: Precau in Hand Precau	tions: ds and Material For Contain spil nment and CleaningTransfer to a Sect tions To Be Taken Avoid breath dling: Avoid prolon tions To Be Taken Keep contain ing: Store in acco	I and collect, as appropriate. a chemical waste container for tion 7. Handling and ning dust/fume/gas/mist/vapours nged or repeated exposure. ner tightly closed.	disposal in accordance with loo I Storage s/spray. on the product insert.	cal regulations.		
7.1	Precau Method Contai Up: Precau in Hand Precau in Stor	tions: ds and Material For Contain spil nment and CleaningTransfer to a Sect tions To Be Taken Avoid breath dling: Avoid prolon tions To Be Taken Keep contain ing: Store in acco	I and collect, as appropriate. a chemical waste container for tion 7. Handling and hing dust/fume/gas/mist/vapours aged or repeated exposure. her tightly closed. ordance with information listed	disposal in accordance with loo I Storage s/spray. on the product insert.	cal regulations.		
5.3 7.1 7.2	Precau Method Contai Up: Precau in Hand Precau in Stor	tions: ds and Material For Contain spil mment and CleaningTransfer to a Sect tions To Be Taken Avoid breath dling: Avoid prolon tions To Be Taken Keep contain ing: Store in accord Section 8. E re Parameters: Partial Chemical Name	I and collect, as appropriate. a chemical waste container for tion 7. Handling and hing dust/fume/gas/mist/vapours aged or repeated exposure. her tightly closed. ordance with information listed	disposal in accordance with loo I Storage s/spray. on the product insert.	cal regulations.		
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3.3 7.1 7.2 3.1 CAS	Precau Method Contai Up: Precau in Hand Precau in Stor Exposu	tions: ds and Material For Contain spil mment and CleaningTransfer to Sect tions To Be Taken Avoid breath dling: Avoid prolon tions To Be Taken Keep contain ing: Store in accord Section 8. E re Parameters: Partial Chemical Name	I and collect, as appropriate. a chemical waste container for tion 7. Handling and hing dust/fume/gas/mist/vapours aged or repeated exposure. her tightly closed. ordance with information listed xposure Controls/Pe Britain EH40	disposal in accordance with low I Storage s/spray. on the product insert. ersonal Protection France VL	Europe		
3.3 7.1 7.2 3.1 CAS	Precau Method Contai Up: Precau in Hand Precau in Stor Exposu # NA	tions: ds and Material For Contain spil mment and CleaningTransfer to a Sect tions To Be Taken Avoid breath dling: Avoid prolon tions To Be Taken Keep contain ing: Store in acco Section 8. E re Parameters: Partial Chemical Name COX-2 (ovine recombinant)	I and collect, as appropriate. a chemical waste container for tion 7. Handling and hing dust/fume/gas/mist/vapours aged or repeated exposure. Iner tightly closed. bordance with information listed <b>xposure Controls/Pe</b> Britain EH40 No data.	disposal in accordance with loc I Storage s/spray. on the product insert. Protection France VL No data.	Europe No data.		
3.3 7.1 7.2 77 773	Precau Method Contai Up: Precau in Hand Precau in Stor Exposu # NA 7-86-1	tions: ds and Material For Contain spil ment and CleaningTransfer to a Sect tions To Be Taken Avoid breath dling: Avoid prolon tions To Be Taken Keep contain ing: Store in acco Section 8. E re Parameters: Partial Chemical Name COX-2 (ovine recombinant) Trizma base	I and collect, as appropriate. a chemical waste container for tion 7. Handling and hing dust/fume/gas/mist/vapours aged or repeated exposure. her tightly closed. ordance with information listed xposure Controls/Pe Britain EH40 No data. No data.	disposal in accordance with loc I Storage s/spray. on the product insert. ersonal Protection France VL No data. No data.	Europe No data. No data.		
5.3 7.1 7.2 3.1 CAS 77 775 56	Precau Method Contai Up: Precau in Hand Precau in Stor Exposu # NA 7-86-1 32-18-5	tions: ds and Material For Contain spil mment and Cleaning Transfer to a Sections To Be Taken Avoid breath dling: Avoid prolon tions To Be Taken Keep contain ing: Store in accord Section 8. E re Parameters: Partial Chemical Name COX-2 (ovine recombinant) Trizma base Water	I and collect, as appropriate. a chemical waste container for tion 7. Handling and hing dust/fume/gas/mist/vapours aged or repeated exposure. her tightly closed. ordance with information listed xposure Controls/Pe Britain EH40 No data. No data. No data. TWA: 10 mg/m3 () STEL: () aurate No data.	disposal in accordance with loc I Storage s/spray. on the product insert. Protection France VL No data. No data. No data.	Europe         No data.         No data.         No data.         No data.		

Multi-region format



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Glycerol         Polyoxyethylenesorbi         (polysorbate 20; Sor         monododecanoate,         poly(oxy-1,2-ethaned)         2',3'-Dideoxycytidine(         ure Controls:         sering Controls         ation etc.):         hal protection equipment         otection:       Satistive Gloves:         ctive Gloves:       Co         Protective Clothing:Latistive Type):         Hygienic/Maintenan Do         ctices:       Fatory         W         No	bitan, iyl) derivatives) ddc) se process enclosuvels below recomment: afety glasses ompatible chemical b coat OSH approved rest o not take internally acilities storing or u ash thoroughly after o data available.	PEL: 15 (dust); 5 (res mg/m3 No data. No data. No data. ures, local exhaust ver nended exposure limit al-resistant gloves spirator, as conditions y. utilizing this material sh rer handling.	TLV: 10 mg/m3 TLV: 10 mg/m3 No data.	No data. No data. No data.
Polyoxyethylenesorbi         (polysorbate 20; Sor         monododecanoate,         poly(oxy-1,2-ethaned)         2',3'-Dideoxycytidine(         ure Controls:         pering Controls         earing Controls         ation etc.):         hal protection equipment         otection:         Satory Equipment         fy Type):         Hygienic/Maintenan Doc         ctices:         Fa	bitan, iyl) derivatives) ddc) se process enclosuvels below recomment: afety glasses ompatible chemicate b coat OSH approved restricts onot take internally acilities storing or u ash thoroughly after o data available.	mg/m3 No data. No data. No data. ures, local exhaust ver nended exposure limit al-resistant gloves spirator, as conditions y. utilizing this material share rer handling.	No data. No data. ntilation, or other engineeri s. warrant.	No data.
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eering Controls Us ation etc.): let nal protection equipme otection: Sa tive Gloves: Co Protective Clothing:La atory Equipment Ni fy Type): Hygienic/Maintenan Do ctices: Fa W	vels below recomment: afety glasses ompatible chemica ob coat OSH approved res o not take internally acilities storing or u ash thoroughly afte o data available.	nended exposure limit al-resistant gloves spirator, as conditions y. utilizing this material sh er handling.	s. warrant.	
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fy Type): Hygienic/Maintenan Do ctices: Fa W	o not take internall acilities storing or u ash thoroughly afte o data available.	y. utilizing this material sh er handling.		eyewash and a safety show
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ctices: Fa W	acilities storing or u ash thoroughly afte o data available.	utilizing this material sl er handling.	nould be equipped with an	eyewash and a safety show
W	ash thoroughly after o data available.	er handling.	nould be equipped with an	eyewash and a safety show
No	o data available.	-		
		sical and Cher		
Sec	tion 9. Phys	sical and Cher		
500			nical Properties	
ation on Basic Physica	al and Chemical P			
al States:		[X]Liquid []Sol	id	
rance and Odor:	Solution			
g Point:	No data.			
g Point:	No data.			
Pt:	No data.			
ration Rate:	No data.			
ability (solid, gas):	No data avail	lable.		
sive Limits:	LEL: No data	a.	UEL: No data.	
Pressure (vs. Air or m	m No data.			
,				
Density (vs. Air = 1):	No data.			
	No data.			
• • •				
	Density (vs. Air = 1): ic Gravity (Water = 1): lity in Water: nition Pt:	ic Gravity (Water = 1): No data. lity in Water: No data.	ic Gravity (Water = 1): No data. lity in Water: No data.	ic Gravity (Water = 1): No data. Iity in Water: No data.

Multi-region format



		formation					
	Percent	Volatile:	No data.				
			Section 10. Stability an	d Reacti	vity		
0.1	Reactiv	ity:	No data available.				
0.2	Stability	/:	Unstable [ ] Stable [ X ]				
0.3	Stability	/ Note(s):	Stable if stored in accordance with inform	mation listed	on the product	insert.	
	Polyme	rization:	Will occur [ ] Will not occur [ X ]				
0.4	Conditio	ons To Avoid:	No data available.				
0.5	Incomp	atibility - Material	s strong bases				
To Avo		d:	strong oxidizing agents				
10.6	Hazardo	bus	carbon dioxide				
	-	osition or	carbon monoxide				
	Byprod	ucts:					
			Section 11. Toxicologica	l Informa	ation		
1.1	Informa	tion on	The toxicological effects of this product h	nave not beer	n thoroughly st	udied.	
	Toxicol	ogical Effects:	Glycerol - Irritation Data: Eyes (rabbit): 5		-		-
			Polysorbate 20 - Toxicity Data: Oral LD50 (rat): 36700 uL/kg; Intraperitoneal LD50 (rat): 3850				
			mg/kg; Oral LD50 (mouse): >33 gm/kg; Intraperitoneal LD50 (mouse): 2640 mg/kg;				
		Toxicological	Glycerol - Investigated as a mutagen, reproductive effector, and tumorigen.				
	Effects:		Polysorbate 20 - Investigated as a drug,		-		
			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Glycerol RTECS Number: MA8050000 Polysorbate 20 RTECS Number: TR7400000				
Carol	nogenicit						
Jai Ch	nogenien	y:	NTP? No IARC Monographs? No	OSHA Re	egulated? No		
		-		OSHA Re	egulated? No	ACGIH	OSHA
		-	nponents (Chemical Name)		-	ACGIH n.a.	OSHA n.a.
CAS	#	Hazardous Con	nponents (Chemical Name)	NTP	IARC		
<b>CAS</b>	# NA	Hazardous Con COX-2 (ovine re	nponents (Chemical Name)	NTP n.a.	n.a.	n.a.	n.a.
CAS 77 773	# NA 7-86-1	Hazardous Con COX-2 (ovine re Trizma base	nponents (Chemical Name)	NTP           n.a.           n.a.	IARC n.a. n.a.	n.a. n.a.	n.a.
CAS 77 773 56	# NA 7-86-1 32-18-5 3-81-5	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol	nponents (Chemical Name)	NTP           n.a.           n.a.           n.a.	IARC           n.a.           n.a.           n.a.           n.a.	n.a. n.a. n.a.	n.a. n.a. n.a.
CAS 77 773 56	# NA 7-86-1 32-18-5	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene	nponents (Chemical Name)	NTP           n.a.           n.a.           n.a.           n.a.           n.a.	IARC           n.a.           n.a.           n.a.           n.a.           n.a.           n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.
CAS 77 773 56	# NA 7-86-1 32-18-5 3-81-5	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene	nponents (Chemical Name) combinant) sorbitan Monolaurate (polysorbate 20;	NTP           n.a.           n.a.           n.a.           n.a.           n.a.	IARC           n.a.           n.a.           n.a.           n.a.           n.a.           n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.
77 773 56 900	# NA 7-86-1 32-18-5 3-81-5	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod	sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl)	NTP           n.a.           n.a.           n.a.           n.a.           n.a.	IARC           n.a.           n.a.           n.a.           n.a.           n.a.           n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.
CAS 77 773 56 900	# NA 7-86-1 32-18-5 3-81-5 05-64-5	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives)	sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl)	NTP         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         28	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 77 773 56 900	# NA 7-86-1 32-18-5 3-81-5 05-64-5	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti	nponents (Chemical Name) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc)	NTP         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         28	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 777 773 56 900 748	# NA 7-86-1 32-18-5 5-81-5 05-64-5 31-89-2	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti	combinant) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc) Section 12. Ecological	NTP         n.a.         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         2B	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 777 773 56 900 748	# NA 7-86-1 32-18-5 3-81-5 05-64-5 31-89-2 Toxicity	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti	nponents (Chemical Name) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc) Section 12. Ecological Avoid release into the environment.	NTP         n.a.         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         2B	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 777 773 56 900 748 12.1	# NA 7-86-1 32-18-5 3-81-5 05-64-5 31-89-2 Toxicity	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti	nponents (Chemical Name) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc) Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water	NTP         n.a.         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         2B	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 777 773 56 900 748 12.1	# NA 7-86-1 32-18-5 3-81-5 05-64-5 31-89-2 Toxicity Persiste Degrada	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti	nponents (Chemical Name) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc) Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water	NTP         n.a.         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         2B	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 777 773 56 900 748 12.1 12.2	# NA 7-86-1 32-18-5 3-81-5 05-64-5 31-89-2 Toxicity Persiste Degrada	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti	nponents (Chemical Name) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc) Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available.	NTP         n.a.         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         2B	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 77 773 56 900 748 2.1 2.2	# NA 7-86-1 32-18-5 3-81-5 05-64-5 31-89-2 Toxicity Persiste Degrada Bioaccu Potentia	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti	nponents (Chemical Name) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc) Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available.	NTP         n.a.         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         2B	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 777 56 900 748 2.1 2.2 2.3	# NA 7-86-1 32-18-5 3-81-5 05-64-5 31-89-2 Toxicity Persiste Degrada Bioaccu Potentia Mobility	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti z',3'-Dideoxycyti	anponents (Chemical Name) combinant) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc) <u>Section 12. Ecological</u> Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available.	NTP         n.a.         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         2B	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 777 56 900 748 2.1 2.2 2.3	# NA 7-86-1 32-18-5 3-81-5 05-64-5 31-89-2 Toxicity Persiste Degrada Bioaccu Potentia Mobility	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti c: ence and ability: unulative al: in Soil: of PBT and vPvE	anponents (Chemical Name) combinant) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc) <u>Section 12. Ecological</u> Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available.	NTP         n.a.         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         2B	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.
CAS 777 773 56 900 748 12.1 12.2	# NA 7-86-1 32-18-5 3-81-5 3-81-5 35-64-5 31-89-2 Toxicity Persiste Degrada Bioaccu Potentia Mobility Results	Hazardous Con COX-2 (ovine re Trizma base Water Glycerol Polyoxyethylene Sorbitan, monod derivatives) 2',3'-Dideoxycyti 2',3'-Dideoxycyti	anponents (Chemical Name) combinant) combinant) sorbitan Monolaurate (polysorbate 20; lodecanoate, poly(oxy-1,2-ethanediyl) dine(ddc) <u>Section 12. Ecological</u> Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available.	NTP         n.a.         n.a.	IARC         n.a.         n.a.         n.a.         n.a.         n.a.         n.a.         2B	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.



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12.6 Other a	adverse effects:					
	Section 13. Dispos	sal Considera	ations			
13.1 Waste	<b>3.1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.					
	Section 14. Trar	sport Information	ation			
14.1 LAND	TRANSPORT (US DOT):					
DOT Prop	er Shipping Name: Not dangerous goods.					
DOT Haza	rd Class:					
UN/NA Nu	imber:					
14.1 LAND	TRANSPORT (European ADR/RID):					
ADR/RID	Shipping Name: Not dangerous goods.					
UN Numb						
Hazard CI						
	A Shipping Name: Not dangerous goods.					
Additional Tra	ansport Transport in accordance with lo	ocal, state, and fede	ral regulations.			
Information:						
	Section 15. Regu	latory Inform	ation			
EPA SARA (S	uperfund Amendments and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	COX-2 (ovine recombinant)	No	No	No		
77-86-1	Trizma base	No	No	Yes-Cat. N106		
7732-18-5	Water	No	No	No		
56-81-5	Glycerol	No	No	No		
9005-64-5	Polyoxyethylenesorbitan Monolaurate (polysorbate 20; Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivatives)	No	No	No		
7481-89-2	7481-89-2 2',3'-Dideoxycytidine(ddc)		No	No		
CAS #	Hazardous Components (Chemical Name)	Other US EPA o	r State Lists			
NA	COX-2 (ovine recombinant)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
77-86-1	Trizma base	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
7732-18-5	Water	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
56-81-5	Glycerol	CAA HAP,ODC: Inventory; CA P		: No; TSCA: Yes -		
9005-64-5	Polyoxyethylenesorbitan Monolaurate (polysorbate 20; Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivatives)	CAA HAP,ODC: Inventory; CA P		: No; TSCA: Yes -		
7481-89-2	2',3'-Dideoxycytidine(ddc)	CAA HAP,ODC: PROP.65: Yes	No; CWA NPDES	: No; TSCA: No; CA		
	-					

Multi-region format



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Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.
	Section 16. Other Information
Revision Date:	09/11/2015
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.