

SAFETY DATA SHEET Nelarabine

Multi-region format

Revision: 10/29/2016

			(EC) No. 1272/2008				
	Section 1. Id	lentification of the Substance/Mixture and of the	ne Company/Undertaking				
.1	Product Code:	20248					
	Product Name:	Nelarabine					
	Synonyms:	9betaD-arabinofuranosyl-6-methoxy-9H-pu	rin-2-amine; GW 506U78; Nelzarabine				
2	Relevant identified uses of	the substance or mixture and uses advised ag	ainst:				
	Relevant identified uses:	For research use only, not for human or vetering	nary use.				
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				
4	Emergency telephone num						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
	0,	CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
1	Classification of the Substa Germ Cell Mutagenicity, C Carcinogenicity, Category Toxic To Reproduction, C Specific Target Organ Tox Aquatic Toxicity (Chronic	Category 2 y 2 Category 2 xicity (repeated exposure), Category 1					
2	Germ Cell Mutagenicity, C Carcinogenicity, Category Toxic To Reproduction, C Specific Target Organ Tox	Category 2 y 2 Category 2 xicity (repeated exposure), Category 1					
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	Germ Cell Mutagenicity, C Carcinogenicity, Category Toxic To Reproduction, C Specific Target Organ Tox Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H341: Suspected of causing H351: Suspected of causing H361: Suspected of damag H372: Causes damage to o H413: May cause long lasti GHS Precaution Phrases: P201: Obtain special instrue P202: Do not handle until a P260: Do not breathe {dust P264: Wash {hands} thorou P273: Avoid release to the P280: Wear {protective glow	Category 2 y 2 sategory 2 xicity (repeated exposure), Category 1 s), Category 4 Danger g genetic defects. g cancer. ing fertility or the unborn child. organs through prolonged or repeated exposure. ng harmful effects to aquatic life. ctions before use. Il safety precautions have been read and understor /fume/gas/mist/vapors/spray}. ughly after handling. environment.					

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SAFETY DATA SHEET Nelarabine

	GHS S	Storage and Dispe	sal Phrases:					
	Please	e refer to Section 7	for Storage and Section 13 for Disposal information.					
2.3	Advers	e Human Health	Causes damage to organs through prolonged or repeated exposure. Material may be irritating to the mucous membranes and upper respiratory tract.					
	Effects	and Symptoms:						
			May be harmful by inhalation	, ingestion, or skin	absorption.			
			May cause eye, skin, or resp	iratory system irrita	tion.			
			May cause long lasting harm	ful effects to aquati	c life.			
			Suspected of causing cancer	·.				
			Suspected of causing genetic	c defects.				
			Suspected of damaging fertil	ity or the unborn ch	ild.			
			To the best of our knowledge	e, the toxicological p	properties have no	t been thoroughly investigated.		
		Sect	tion 3. Composition	/Information	on Ingredie	nts		
CAS	#/	Hazardous Com	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTEC	CS #	REACH Registra	tion No.		EC Index No.			
1210	32-29-9	Nelarabine		100.0 %	642-916-9	Mutagen 2: H341		
UO73	50000				NA	Carcinogen 2: H351		
						Toxic Repro. 2: H361		
						STOT (RE) 1: H372		
						Aquatic (C) 4: H413		
			Section 4. Fi	rst Aid Meas	ures			
	Description of First Aid							
.1	Descrip	otion of First Aid						
.1	Descrip Measur							
l.1	Measur		Remove to fresh air. If not bro	eathing, give artifici	al respiration or gi	ve oxygen by trained personnel.		
l.1	Measur	es:	Remove to fresh air. If not bro		al respiration or gi	ve oxygen by trained personnel.		
.1	Measur In Case	es: of Inhalation:	Get immediate medical attent	tion.				
l.1	Measur In Case	es: of Inhalation:	Get immediate medical attent	tion. oap and plenty of w	vater for at least 15	5 minutes. Remove contaminate		
l.1	Measur In Case In Case	es: of Inhalation:	Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	tion. oap and plenty of v n if symptoms occu	vater for at least 15 Ir. Wash clothing b	5 minutes. Remove contaminate before reuse.		
¥.1	Measur In Case In Case	es: of Inhalation: of Skin Contact:	Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	tion. oap and plenty of w n if symptoms occu eyes with plenty of y	vater for at least 15 Ir. Wash clothing b	5 minutes. Remove contaminate before reuse.		
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		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,					
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).					
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:						
		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.					
	Secti	on 8. Exposure Controls/Personal Protection					
8.1	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.):	evels below recommended exposure limits.					
8.2.2	Personal protection equip	nent:					
	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.					
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
		Wash thoroughly after handling.					
		No data available.					
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physi	cal and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A crystalline solid					
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	Flammability (solid, gas):	No data available.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air or	mm No data.					
	Hg):	No data					
	Vapor Density (vs. Air = 1):	No data.					
		Multi-region forma					

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	Specific	Gravity (Water =	1): No data	•					
	Solubilit	y in Water:	No data						
	Solubilit	y Notes:	e e	/ml in a 1:1 solutio	on of DMS	SO:PBS (p⊦	l 7.2); ~10 mg	/ml in DMSO;	~3 mg/ml in
			DMF;						
		Water Partition	No data						
	Coefficie	ent:							
	Autoign	ition Pt:	No data						
	Decomp	osition Temperat	ure: No data						
	Viscosit	y:	No data						
9.2	Other Inf	ormation							
	Percent	Volatile:	No data						
	Molecula	ar Formula & Wei	ght: C11H15	5N5O5 297.3					
			Section	10. Stabilit	y and	Reactiv	/ity		
10.1	Reactivi	ty:	No data availab						
10.2	Stability		Unstable []	Stable [X]					
10.3	-	Note(s):	Stable if stored	in accordance with	h informa	tion listed o	n the product	insert.	
	Polymer	ization:	Will occur []	Will not occur [X]				
10.4	Conditio	ons To Avoid:	No data availab	le.					
10.5	Incompa	atibility - Materials	strong oxidizing	agents					
	To Avoid	d:							
10.6	Hazardo	us	carbon dioxide						
	Decomp	osition or	carbon monoxic	le					
	Byprodu	icts:	nitrogen oxides						
			Section	11. Toxicolo	ogical	Informa	ition		
11.1	Informat	ion on	The toxicologica	al effects of this pro	oduct hav	ve not been	thoroughly st	udied.	
	Toxicolo	gical Effects:	Nelarabine - To	xicity Data: Intrape	eritoneal ⁻	TDLO (mou	se): 1250 mg	/kg/25D (intern	nittent);
	Chronic	Toxicological	Only select Reg	gistry of Toxic Effe	cts of Che	emical Subs	stances (RTE	CS) data is pre	sented here.
	Effects:		See actual entry	y in RTECS for co	mplete in	formation.			
			Nelarabine RTE	CS Number: UO7	350000				
CAS	#	Hazardous Com	ponents (Chemi	ical Name)		NTP	IARC	ACGIH	OSHA
1210	32-29-9	Nelarabine				n.a.	n.a.	n.a.	n.a.
			Sectior	n 12. Ecolog	jical In	formati	on	•	•
12.1	Toxicity	:	Avoid release ir	nto the environmer	nt.				
			Runoff from fire	control or dilution	water ma	ay cause po	ollution.		
12.2	Persiste	nce and	No data availab	le.					
	Degrada	bility:							
12.3	Bioaccu	mulative	No data availab	le.					
	Potentia	l:							
12.4	Mobility	in Soil:	No data availab	le.					
12.5	Results	of PBT and vPvB	No data availab	ole.					
	assessm	nent:							
12.6	Other ac	lverse effects:	No data availab	ole.					
									lulti-rogion former
								N	Iulti-region format

SAFETY DATA SHEET Nelarabine

Revision: 10/29/2016



Section 16. Other Information Revision Date: 10/29/2016 Additional Information About No data available. This Product: 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 warra express or implied, with respect to such information, and we assume no liability resulting from			Section 13. Dispo	sal Considera	tions		
14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. DOT Hazard Class: 9 CLASS 9 UN/NA Number: UN3077 Packing Group: III ADR/RID Shipping Name: Environmentally hazardous substances, solid, n.o.s. III ADR/RID Shipping Name: Environmentally hazardous substances, solid, n.o.s. III Hazard Class: 9 - CLASS 9 III TAClassification: 9 Additional Transport Transport in accordance with local, state, and federal regulations. III Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity. Cdast # Section 15. Regulatory Information No No No CAS # Hazardous Components (Chemical Nam	13.1 Waste D	Disposal Method:	Dispose in accordance with loo	cal, state, and federal	regulations.		
DOT Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. DOT Hazard Class: 9 CLASS 9 UNNA Number: UN3077 Packing Group: III III III III III III III III III III III III III III IIII IIII III IIII IIII III IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			Section 14. Trar	nsport Informa	ition		
DOT Hazard Class: 9 CLASS 9 UNNA Number: UN3077 Packing Group: III III III III ADR/RID Shipping Name: Environmentally hazardous substances, solid, n.o.s. III UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 III Classification: 9 Additional Transport Transport in accordance with local, state, and federal regulations. III Information: When sold in quantities of less than or equal to 1 mL, or 1 g, witt an Excepted Quantity Code E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goody/Excepted Quantity. CAS # Hazardous Components (Chemical Name)	14.1 LAND 1	RANSPORT (US	DOT):				
UNNA Number: UN3077 Packing Group: III UNNA Number: UN307 Packing Group: III Additional Transport (European ADR/RID): Maximum Cassima and Casma and Cassima and Cassima and Cassima and Ca	DOT Prope	er Shipping Name	: Environmentally hazardou	s substances, solid, r	1.0.S.		
Additional Transport in accordance with 29 CFR 1910.1200 and Regulation (EC) CAS # Hazardous Components (Chemical Name) No CAS Hazardous Components (Chemical Name) Other US EPA or State Lists 10/202/201 Additional Information About	DOT Hazar	d Class:	9 CLASS 9				
ADR/RID Shipping Name: Environmentally hazardous substances, solid, n.o.s. UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 14.3 AIR TRANSPORT (ICAO/IATA): III ICAO/IATA Shipping Name: Environmentally hazardous substances, solid, n.o.s. III UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 IATA Classification: 9 Additional Transport Transport in accordance with local, state, and federal regulations. 9 Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists No No CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 121032-29-9 Nelarabline CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.	UN/NA Nu	nber:	UN3077	Packing Gro	oup:	111	
ADR/RID Shipping Name: Environmentally hazardous substances, solid, n.o.s. UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 14.3 AIR TRANSPORT (ICAO/IATA): III ICAO/IATA Shipping Name: Environmentally hazardous substances, solid, n.o.s. III UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 IATA Classification: 9 Additional Transport Transport in accordance with local, state, and federal regulations. 9 Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists No No CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 121032-29-9 Nelarabline CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.							
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			their particular purposes.				
Baulai unuine d						Multi-region for	