

Revision: 04/17/2018 Supersedes Revision: 02/27/2014

	CHIMICAL		Supersedes Revision: 02/27/2014				
according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008							
	Section 1.	Identification of the Substance/Mixture and of the	ne Company/Undertaking				
.1	Product Code:	14587					
	Product Name:	9-cis-Retinoic Acid					
	Synonyms:	9-cis-retinoic acid; Aliretinoin; NSC 659772; Pa	anretin; 9-cis RA;				
.2	Relevant identified uses of	of the substance or mixture and uses advised ag	ainst:				
	Relevant identified uses	-					
.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 nu	mber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identification	ation				
.1	Classification of the Subs						
••							
	Skin Corrosion/Irritation						
	Serious Eye Damage/Ey						
	Toxic To Reproduction,	Category 1B					
	Specific Target Organ 1	oxicity (single exposure), Category 3					
2.2	Label Elements:						
	A A						
	\wedge						
	<><						
	GHS Signal Word:	Danger					
	GHS Hazard Phrases:	J					
	H315: Causes skin irritation.						
	H319: Causes serious ey						
	H335: May cause respiratory irritation.						
	H360: May damage fertility or the unborn child.						
	GHS Precaution Phrases:						
	P201: Obtain special instructions before use.						
	P202: Do not handle until all safety precautions have been read and understood.						
	P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.						
	P264: Wash {hands} thoroughly after handling.						
	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.						
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.						
	P305+351+338: IF IN EY	ES: Rinse cautiously with water for several minutes.	Remove contact lenses, if present and easy				
	to do. Continue rinsing.						
	P308+313: IF exposed or	concerned: Get medical attention/advice.					
	P312: Call a POISON CE	NTER or doctor/physician if you feel unwell.					
	P332+313: If skin irritatio	n occurs, get medical advice/attention.					



Revision: 04/17/2018 Supersedes Revision: 02/27/2014

		-	n persists, get medical advice/a									
	P362+	P362+364: Take off contaminated clothing and wash it before reuse.										
	GHS Storage and Disposal Phrases:											
	Please	Please refer to Section 7 for Storage and Section 13 for Disposal information.										
2.3	Advers	e Human Health	Causes skin irritation.									
	Effects	and Symptoms:	Causes serious eye irritation									
			Material may be irritating to t			espiratory tract.						
			May be harmful by inhalation May cause respiratory irritati	-	absorption.							
			May damage fertility or the u									
					properties have no	ot been thoroughly investigated						
		Sect	tion 3. Composition	-								
CAS	#/	1	ponents (Chemical Name)/	Concentration	EC No./	GHS Classification						
RTEC		REACH Registra	• • •	Concentration	EC Index No.	Uno Classification						
5300	0-03-8	Retinoic acid, 9-cis-		100.0 %	610-929-9	Skin Corr. 2: H315						
VH64	50000				NA	Eye Damage 2: H319						
						STOT (SE) 3: H335						
						Toxic Repro. 1B: H360						
			Section 4. Fi	rst Aid Meas	sures							
	Descrip	tion of First Aid										
.1	•					Measures:						
.1	-											
.1	Measur		Remove to fresh air. If not br	eathing, give artific	ial respiration or g	ive oxygen by trained personne						
.1	Measur	es:	Remove to fresh air. If not br Get immediate medical atten		ial respiration or g	ive oxygen by trained personne						
l.1	Measur In Case	es: of Inhalation:	Get immediate medical atten Immediately wash skin with s	tion. soap and plenty of v	water for at least 1	5 minutes. Remove contamina						
i.1	Measur In Case	es: of Inhalation:	Get immediate medical atten Immediately wash skin with s clothing. Get medical attentio	tion. soap and plenty of voor if symptoms occu	water for at least 1 ur. Wash clothing l	5 minutes. Remove contamina before reuse.						
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Multi-region format



Revision: 04/17/2018 Supersedes Revision: 02/27/2014

	<u> </u>	action 6 Accidental Balance Macauras				
		ection 6. Accidental Release Measures				
6.1		void raising and breathing dust, and provide adequate ventilation.				
		s conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
		nd appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2		ake steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3		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 A	void breathing dust/fume/gas/mist/vapours/spray.				
	in Handling: A	void prolonged or repeated exposure.				
7.2	Precautions To Be Taken K	eep container tightly closed.				
	in Storing: Si	tore in accordance with information listed on the product insert.				
	Sectio	n 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls U	se process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.): le	entilation etc.): levels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection: Sa	Safety glasses				
	Protective Gloves: C	ompatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment N	NIOSH approved respirator, as conditions warrant.				
	(Specify Type):	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.				
	Ν	o data available.				
	Sec	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	al 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 m	nm No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
		Multi-region format				

Cayman

SAFETY DATA SHEET 9-cis-Retinoic Acid

Page: 4 of 5

	Specific Gravity (Water =	1): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.5 mg/ml in EtOH; ~20 mg/ml in	DMSO & DM	F;			
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperat	ture: No data.					
	Viscosity:	No data.					
9.2	Other Information						
0.2	Percent Volatile:	No data.					
	Molecular Formula & Wei						
		-					
		Section 10. Stability and	Reactivi	ty			
10.1	Reactivity:	No data available.					
10.2	Stability:	Unstable [] Stable [X]					
10.3	Stability Note(s):	Stable if stored in accordance with informa	ation listed on	the product	insert.		
	Polymerization:	Will occur [] Will not occur [X]					
10.4	Conditions To Avoid:	No data available.					
10.5	Incompatibility - Materials	s strong oxidizing agents					
	To Avoid:						
10.6	Hazardous	carbon dioxide					
10.0		carbon dioxide					
	Decomposition or	carbon monoxide					
	Byproducts:						
		Section 11. Toxicological	Informat	ion			
11.1	Information on	The toxicological effects of this product ha	ve not been t	horoughly stu	udied.		
	Toxicological Effects:	9-cis-Retinoic Acid - Toxicity Data: Oral TI	DLO (rat) 16.8	8 mg/kg/7D (0	continuous); O	ral TDLO	
	-	(human): 24 mg/kg/24W (intermittent);	man): 24 mg/kg/24W (intermittent);				
	Chronic Toxicological	-cis-Retinoic Acid - Investigated as a drug.					
	Effects:	Only select Registry of Toxic Effects of Ch	emical Subst	ances (RTEC	CS) data is pre	sented here.	
		See actual entry in RTECS for complete ir	e actual entry in RTECS for complete information.				
		9-cis-Retinoic Acid RTECS Number: VH64	450000				
CAS	# Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	0-03-8 Retinoic acid, 9-0		n.a.	n.a.	n.a.	n.a.	
					11.4.	11.4.	
		Section 12. Ecological li	nformatic	n			
12.1	Toxicity:	Avoid release into the environment.					
		Runoff from fire control or dilution water m	ay cause poll	ution.			
12.2	Persistence and	No data available.					
	Degradability:						
12.3	Bioaccumulative	No data available.					
	Potential:						
12.4	Mobility in Soil:	No data available.					
	-						
12.5	Results of PBT and vPvB	INU GATA AVAIIADIE.					
	assessment:						
12.6	Other adverse effects:	No data available.					
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Page: 5 of 5

Multi-region format

Revision: 04/17/2018 Supersedes Revision: 02/27/2014

CHEMICAL				Supe	ersedes Revision: 02/27/201	
		Section 13. Dispos	sal Considera	tions		
3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.						
		Section 14. Tran	sport Informa	tion		
14.1 LAND T	RANSPORT (US	DOT):				
DOT Prope	er Shipping Name	Not dangerous goods.				
DOT Hazar	d Class:					
UN/NA Nur	nber:					
	-	opean ADR/RID):				
	hipping Name:	Not dangerous goods.				
UN Numbe						
Hazard Cla		// A T A \.				
	ANSPORT (ICAO/ Shipping Name:	-				
Additional Tra		Transport in accordance with lo	cal state and feder	al regulations		
Information:	пэроп			a regulations.		
		Section 15 Page	latory Informa	tion		
		Section 15. Regu	•			
		nents and Reauthorization Act	-	0.004.00		
CAS #		nponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
5300-03-8	Retinoic acid, 9-0		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or State Lists			
5300-03-8	Retinoic acid, 9-0	cis-	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.				
Statement:						
		Section 16. Otl	her Informatio	n		
Revision Date:		04/17/2018				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	y or Disclaimer:	DISCLAIMER: This information	is believed to be acc	urate and represe	nts 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 fo				
		their particular purposes.				