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1	SAFETY DATA SHE	Page: 1 of 5			
	Fucoxanthin	Revision: 07/06/2018			
		Supersedes Revision: 01/29/2015			
accord	ding to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008			
Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking			
Product Code:	13068				
Product Name:	Fucoxanthin				
Synonyms:	6'R,7'-didehydro-5R,6-epoxy-4',5',6S,7-tetrahy	dro-3S,3'S,5'R-trihydroxybeta.,.betacaroten-8(
	5H)-one;				
Relevant identified uses of t	he substance or mixture and uses advised aga	ainst:			
Relevant identified uses: For research use only, not for human or veterinary use.					
Details of the Supplier of the	e 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			
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	nce or Mixture:				
Serious Eye Damage/Eye	Irritation, Category 2A				
l abel Flements					

Emergency Contact: Classification of the Substance or Mixture: 2.1 Serious Eye Damage/Eye Irritation, Category 2.2 Label Elements:



GHS Signal Word:

Warning

GHS Hazard Phrases: H319: Causes serious eye irritation.

GHS Precaution Phrases:

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Causes serious eye irritation.

> 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 skin or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.



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		Sect	tion 3. Composition	/Information of	on Ingredie	nts	
CAS RTEC		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
3351-86-8 Fucoxanthin FI0329800		Fucoxanthin		100.0 %	686-524-6 NA	Eye Damage 2A: H319	
			Section 4. Fi	rst Aid Measu	ires		
4.1	Descrip	otion of First Aid					
	Measur	es:					
	In Case	of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		respiration or giv	e oxygen by trained personnel.	
	In Case	of Skin Contact:	Immediately wash skin with s clothing. Get medical attentio			minutes. Remove contaminated efore reuse.	
	In Case	of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 15	5 minutes. Have eyes examined	
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.				
			Section 5. Fire	Fighting Mea	sures		
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	spray.	
	Media:		Use water spray to cool fire-e	exposed containers.			
	Unsuita	able Extinguishing	A solid water stream may be	inefficient.			
	Media:						
5.2	 Flammable Properties andNo data available. Hazards: 						
			No data available.				
	Flash F	Yt:	No data.				
	Explos	ive Limits:	LEL: No data.	UEL: No da	ta.		
	Autoig	nition Pt:	No data.				
5.3	Fire Fighting 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.						
			Section 6. Acciden	ital Release N	leasures		
6.1	Protect	ive Precautions,	Avoid raising and breathing	dust, and provide ad	equate ventilation	l.	
	Protect	ive Equipment and	d As conditions warrant, wear	a NIOSH approved s	elf-contained bre	athing apparatus, or respirator,	
	Emerge	ency Procedures:	and appropriate personal pro	otection (rubber boot	s, safety goggles,	, and heavy rubber gloves).	
6.2	Enviro	nmental	Take steps to avoid release	into the environment	, if safe to do so.		
	Precau	tions:					
6.3							
		nment and Cleanir	ngTransfer to a chemical waste	e container for dispos	al in accordance	with local regulations.	
	Up:						
			Section 7. Har	ndling and Sto	orage		
7.1	Precau	tions To Be Taken	Avoid breathing dust/fume/ga	as/mist/vapours/spray	/.		
	in Hand	lling:	Avoid prolonged or repeated	exposure.			
7.2	Precau	tions To Be Taken	Keep container tightly closed				
	in Stori	ng:	Store in accordance with info	rmation listed on the	product insert.		
						Multi-region format	



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	Sect	ion 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 airbor				
	(Ventilation etc.):	levels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	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					
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety				
		shower.				
		Wash thoroughly after handling.				
		No data available.				
	Se	ection 9. Physical and Chemical Properties				
9.1	Information on Basic Phys	ical 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):					
	Vapor Density (vs. Air = 1)					
	Specific Gravity (Water = '					
	Solubility in Water:	No data.				
	Solubility Notes:	~20 mg/ml in DMSO; ~10 mg/ml in acetone;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatu					
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile: Molecular Formula & Weig	No data. aht: C42H58O6 658.9				



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			Section 10. Stability and	Reactiv	ity			
10.1	Reactivity:		No data available.					
10.2	Stability:		Unstable [] Stable [X]					
10.3	Stability No	ote(s):	Stable if stored in accordance with information listed on the product insert.					
	Polymeriza	ation:	Will occur [] Will not occur [X]					
10.4	Conditions	To Avoid:	No data available.					
10.5	Incompatik	oility - Materials	s strong oxidizing agents					
	To Avoid:							
10.6	Hazardous		carbon dioxide					
	Decompos	ition or	carbon monoxide					
	Byproduct	s:						
			Section 11. Toxicological	Informa	tion			
11.1	Informatio	n on	The toxicological effects of this product have	ve not been	thoroughly st	udied.		
	Toxicologi	cal Effects:	Fucoxanthin - Toxicity Data: Oral TDLO (m	nouse): 33.6	gm/kg/14D (d	continuous);		
	Chronic To	oxicological	Fucoxanthin - Investigated as a mutagen a	ind natural p	roduct.			
	Effects:		Only select Registry of Toxic Effects of Ch		tances (RTE	CS) data is pre	sented here.	
			See actual entry in RTECS for complete in	formation.				
			Fucoxanthin RTECS Number:					
CAS #	≠ Н	azardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
3351	1-86-8 F	ucoxanthin		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecological Ir	formatio	on			
12.1	Toxicity:		Avoid release into the environment.					
	· · · · · · · · · · · · · · · · · · ·		Runoff from fire control or dilution water may cause pollution.					
12.2	Persistenc	e and	No data available.					
	Degradabil	lity:						
12.3	Bioaccum	ulative	No data available.					
	Potential:							
12.4	Mobility in	Soil:	No data available.					
12.5	Results of	PBT and vPvB	No data available.					
	assessmer	nt:						
12.6	Other adve	erse effects:	No data available.					
			Section 13. Disposal Con	sideratio	ons			
13.1	Waste Disp	oosal Method:	Dispose in accordance with local, state, an	nd federal reg	gulations.			
			Section 14. Transport Ir	formatio	on			
14.1		NSPORT (US I	DOT):					
D	OT Proper S	hipping Name:	Not dangerous goods.					
	OT Hazard C	1055.						
U	OT Hazard C N/NA Numbe							
UN 14.1	N/NA Numbe	er:	opean ADR/RID):					
14.1	N/NA Numbe	er:	opean ADR/RID): Not dangerous goods.					
14.1 AI	N/NA Numbe	er: NSPORT (Euro						
14.1 AI UN	N/NA Numbe LAND TRA DR/RID Ship	er: NSPORT (Euro oping Name:						
14.1 AI UN	N/NA Numbo LAND TRA DR/RID Ship N Number:	er: NSPORT (Euro oping Name:						

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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not

e: Not dangerous goods. Transport in accordance with local, state, and federal regulations.

Additional Transport Information:

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
3351-86-8	Fucoxanthin		No	No	No		
CAS #	Hazardous Components (Chemical Name)		Other US EPA o	Other US EPA or State Lists			
3351-86-8	Fucoxanthin		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Inf Statement:	formation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Ot	her Information	on			
Revision Date:		07/06/2018					
Additional Information About This Product:		No data available.					
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.					