

Revision: 04/29/2015 Supersedes Revision: 03/11/2010

	acc	cording to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008
	Section 1.	Identification of the Substance/Mixture and of the	he Company/Undertaking
.1	Product Code:	53400	
	Product Name:	(±)9,10-DiHOME	
	Synonyms:	(±)9(10)-dihydroxy-12Z-octadecenoic acid; Le	ukotoxin diol;
2	Relevant identified uses of	of the substance or mixture and uses advised ag	jainst:
	Relevant identified uses	For research use only, not for human or veteri	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 nui	mber:	
	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
	Flammable Liquids, Cat	tegory 2	
	Serious Eye Damage/Ey Specific Target Organ T Label Elements:		
	Serious Eye Damage/Ey Specific Target Organ T Label Elements:	ye Irritation, Category 2 Toxicity (single exposure), Category 3	
	Serious Eye Damage/Ey Specific Target Organ T Label Elements: Labeling according to Re Office According to Re GHS Signal Word: GHS Hazard Phrases:	ye Irritation, Category 2 Toxicity (single exposure), Category 3 Egulation (EC) No 1272/2008 [CLP]: Danger	
	Serious Eye Damage/Ey Specific Target Organ T Label Elements: Labeling according to Re GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated expo	ye Irritation, Category 2 Foxicity (single exposure), Category 3 Egulation (EC) No 1272/2008 [CLP]: Danger sure may cause skin dryness or cracking.	
	Serious Eye Damage/Ey Specific Target Organ T Label Elements: Labeling according to Re Office According to Re GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated expo H225: Highly flammable I	ye Irritation, Category 2 Foxicity (single exposure), Category 3 egulation (EC) No 1272/2008 [CLP]: Danger sure may cause skin dryness or cracking. iquid and vapor.	
	Serious Eye Damage/Ey Specific Target Organ T Label Elements: Labeling according to Re Office According to Re GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated expo H225: Highly flammable H H319: Causes serious ey	ve Irritation, Category 2 Foxicity (single exposure), Category 3 egulation (EC) No 1272/2008 [CLP]: Danger sure may cause skin dryness or cracking. iquid and vapor. re irritation.	
	Serious Eye Damage/Ey Specific Target Organ T Label Elements: Labeling according to Re Construction GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated expo H225: Highly flammable I H319: Causes serious ey H336: May cause drowsin	ve Irritation, Category 2 Foxicity (single exposure), Category 3 egulation (EC) No 1272/2008 [CLP]: Danger sure may cause skin dryness or cracking. iquid and vapor. re irritation. ness or dizziness.	
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2.2 2.2.1	Serious Eye Damage/Ey Specific Target Organ T Label Elements: Labeling according to Re Construction GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated export H225: Highly flammable I H319: Causes serious ey H336: May cause drowsin GHS Precaution Phrase P210: Keep away from {h P261: Avoid breathing {dr P264: Wash {hands} thor P280: Wear {protective get	ye Irritation, Category 2 Toxicity (single exposure), Category 3 egulation (EC) No 1272/2008 [CLP]: Danger sure may cause skin dryness or cracking. iquid and vapor. re irritation. ness or dizziness. s: heat/sparks/open flames/hot surfaces} No smoking ust/fume/gas/mist/vapors/spray}. oughly after handling. loves/protective clothing/eye protection/face protection.	ion}.
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	Serious Eye Damage/Ey Specific Target Organ T Label Elements: Labeling according to Re Construction of the second GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated expoon H225: Highly flammable H H319: Causes serious ey H336: May cause drowsin GHS Precaution Phrase P210: Keep away from {h P261: Avoid breathing {du P264: Wash {hands} thor P280: Wear {protective gi GHS Response Phrases P303+361+353: IF ON Si water/shower. P304+340: IF INHALED:	ye Irritation, Category 2 Toxicity (single exposure), Category 3 egulation (EC) No 1272/2008 [CLP]: Danger sure may cause skin dryness or cracking. iquid and vapor. re irritation. ness or dizziness. s: heat/sparks/open flames/hot surfaces} No smoking ust/fume/gas/mist/vapors/spray}. oughly after handling. loves/protective clothing/eye protection/face protection s: KIN (or hair): Remove/take off immediately all conta	ion}. minated clothing. Rinse skin with sition comfortable for breathing.



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P312: Call a POISON CENTER or doctor/physician if you feel unwell.

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.

Effects and Symptoms: Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause drowsiness or dizziness.

May cause skin or respiratory system irritation.

Repeated exposure may cause skin dryness or cracking.

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
263399-34-4 NA	(±)9,10-DiHOME	0.01 %	NA NA	No data available.
79-20-9 Al9100000	Methyl acetate	99.99 %	201-185-2 607-021-00-X	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H335 H336

# Section 4. First Aid Measures

## 4.1 Description of First Aid No data available.

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 Open of Oldin Opentation	Immediately wash skip with soap and planty of water for at least 15 minutes. Remove contaminated

# 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.
- Important Symptoms and Exposure may cause: coughing, dizziness, drowsiness, headache, narcosis, optic nerve atrophy,
  Effects, Both Acute and chest tightness.

#### Delayed:

Measures:

# Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Media: Unsuitable Extinguishing A solid water stream may be inefficient. Media: 5.2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: Container explosion may occur under fire conditions. Emits toxic fumes under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. Flash Pt: -10.00 C Method Used: Closed Cup

Multi-region format



Explosive Limits:

Autoignition Pt:

LEL: 3.1%

455.00 C

## SAFETY DATA SHEET (±)9,10-DiHOME

UEL: 16%

at 25.0 C

at 25.0 C

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5.3	Fire Fig	hting Instructions	equivalent), and full p	elf-contained breathing appara rotective gear to prevent conta diluted in methyl acetate.		H approved or
			Section 6. Ac	cidental Release M	easures	
6.1 6.2 6.3	Protecti Emerge Environ Precaut Method	ncy Procedures: mental ions: s and Material For	As conditions warran and appropriate pers Take steps to avoid r Contain spill and coll	ors and provide adequate vent at, wear a NIOSH approved se conal protection (rubber boots, release into the environment, i ect, as appropriate. al waste container for disposa	lf-contained breathing appara safety goggles, and heavy ru f safe to do so.	ubber gloves).
			Section 7.	Handling and Stor	age	
7.1	in Hand Precaut in Storie	ling: ions To Be Taken	Avoid prolonged or re Keep away from sour Take precautionary m Keep away from heat Keep container tightly	ces of ignition. neasures against static discha , sparks, and flame. / closed. with information listed on the p	-	
		Sect	ion 8. Exposu	re Controls/Person	al Protection	
8.1	Exposur	e Parameters:				
CAS #	<b>#</b>	Partial Chemical	Name	Britain EH40	France VL	Europe
2633	99-34-4	(±)9,10-DiHOME		No data.	No data.	No data.
79	-20-9	Methyl acetate		TWA: 616 mg/m3 (200 ppm) STEL: 770 mg/m3 (250 ppm)	TWA: 610 mg/m3 (200 ppm) STEL: 760 mg/m3 (250 ppm)	No data.
CAS #	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
2633	99-34-4	(±)9,10-DiHOME		No data.	No data.	No data.
79	-20-9	Methyl acetate		PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.
8.2	Exposu	e Controls:				
8.2.1	Enginee	ering Controls	•	res, local exhaust ventilation, o	or other engineering controls	to control airborne
	-	tion etc.):		ended exposure limits.		
8.2.2		al protection equip				
	-	tection:	Safety glasses	· · · · ·		
		ve Gloves:	Compatible chemical	-resistant gloves		
		rotective Clothing				
	-	tory Equipment	NIOSH approved resp	pirator, as conditions warrant.		
	(Specify		Do not tako intornally			
	ce Prac	-	Do not take internally Facilities storing or ut	ilizing this material should be	equipped with an evewash fa	cility and a safety
			shower.	.g		
						Multi-region format



## SAFETY DATA SHEET (±)9,10-DiHOME

Wash thoroughly after handling.

		No data available.
	ç	Section 9. Physical and Chemical Properties
9.1	Information on Basic Phy	ysical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	A solution in methyl acetate
	Melting Point:	No data.
	<b>Boiling Point:</b>	No data.
	Flash Pt:	-10.00 C Method Used: Closed Cup
	Evaporation Rate:	No data.
	Explosive Limits:	LEL: 3.1% at 25.0 C UEL: 16% at 25.0 C
	Vapor Pressure (vs. Air	or mm 173 MM_HG at 20.0 C
	Hg):	
	Vapor Density (vs. Air =	1): No data.
	Specific Gravity (Water :	= 1): No data.
	Solubility in Water:	No data.
	Autoignition Pt:	455.00 C
9.2	Other Information	
	Percent Volatile:	No data.
	Molecular Formula & We	eight: C18H34O4 314.5
		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:	heat, flames and sparks
10.5	Incompatibility - Materia	I <b>s</b> nitrates
	To Avoid:	strong oxidizing agents
10.6	Hazardous	carbon dioxide
	Decomposition Or	carbon monoxide
	Byproducts:	



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			Sectio	n 11. Toxicologi	cal Information	ation		
11.1		rmation onThe toxicological effects of this product have not been thoroughly studied.icological Effects:Methyl Acetate - Toxicity Data: Oral LD50 (rat): >5,000 mg/kg; Oral LD50 (rabbit): 3,705 mg/lSkin LD50 (rabbit): >5,000 mg/kg; Inhalation TCLO (human): 15,000 mg/m3;Methyl Acetate - Irritation Data: Skin (rabbit): 500 mg (24h) mild; Eyes (rabbit): 100 mg (24h)						
	moderate;Chronic ToxicologicalOnly select Registry of Toxic EffectEffects:See actual entry in RTECS for com Methyl Acetate RTECS Number: All			entry in RTECS for comple				
Carcir	nogenicity	/:	NTP? No	IARC Monographs? No	OSHA R	egulated? No		
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA
2633	99-34-4	(±)9,10-DiHOME			n.a.	n.a.	n.a.	n.a.
79	-20-9	Methyl acetate			n.a.	n.a.	n.a.	n.a.
		·	Secti	on 12. Ecologica	al Informat	tion		
12.1	Toxicity			e into the environment. fire control or dilution wat	er may cause p	ollution.		
12.2	Persiste Degrada		No data ava	ilable.				
12.3	Bioaccu Potentia	mulative	No data available.					
12.4	Mobility	in Soil:	No data ava	ilable.				
12.5	Results assessm		No data available.					
12.6	Other ad	lverse effects:	No data ava	ilable.				
			•					
			Sectio	on 13. Disposal C	Considerat	ions		
13.1	Waste D	isposal Method:		on 13. Disposal C				
13.1	Waste D	isposal Method:	Dispose in a	•	e, and federal r	egulations.		
		isposal Method: RANSPORT (US I	Dispose in a	ccordance with local, stat	e, and federal r	egulations.		
14.1	LAND T		Dispose in a Sect	ccordance with local, stat tion 14. Transpo	e, and federal r	egulations.		
14.1 D	LAND T	RANSPORT (US I r Shipping Name:	Dispose in a Sect	ccordance with local, stat tion 14. Transpo	e, and federal r rt Informat	egulations.		
14.1 D D	LAND T OT Prope	RANSPORT (US I r Shipping Name: d Class:	Dispose in a Sect DOT): Methyl a	ccordance with local, stat tion 14. Transpo acetate	e, and federal r rt Informat	egulations.		
14.1 D D	LAND T OT Prope OT Hazare	RANSPORT (US I r Shipping Name: d Class:	Dispose in a Sect DOT): Methyl a 3	ccordance with local, stat tion 14. Transpo acetate FLAMMABLE LIC	e, and federal r rt Informat	egulations.	I	
14.1 D U	LAND T OT Prope OT Hazard N/NA Nun	RANSPORT (US I r Shipping Name: d Class:	Dispose in a Sect DOT): Methyl a 1231	acetate FLAMMABLE LIC	e, and federal r rt Informat	egulations.	II	
14.1 D U 14.1 A	LAND T OT Prope OT Hazard N/NA Nun LAND T DR/RID SI	RANSPORT (US I r Shipping Name: d Class: nber: nber: RANSPORT (Euro hipping Name:	Dispose in a Sect DOT): Methyl a 3 1231	acetate FLAMMABLE LIC	e, and federal r rt Informat	egulations. tion .ıp:		
D U 14.1 A U	LAND T OT Prope OT Hazard N/NA Nun	RANSPORT (US I r Shipping Name: d Class: nber: nber: RANSPORT (Euro hipping Name:	Dispose in a Sect DOT): Methyl a 3 1231 Opean ADR/R Methyl a 1231	acetate FLAMMABLE LIC	e, and federal r rt Informat	egulations. tion .ıp:		

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#### 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Methyl acetate **UN Number:** Packing Group: Ш 1231 IATA Classification: Hazard Class: 3 - FLAMMABLE LIQUID 3 Additional Transport Transport in accordance with local, state, and federal regulations. Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of 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 EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 263399-34-4 (±)9,10-DiHOME No No No 79-20-9 Methyl acetate No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists CAA HAP.ODC: No: CWA NPDES: No: TSCA: No: CA 263399-34-4 (±)9,10-DiHOME PROP.65: No 79-20-9 Methyl acetate CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes -Inventory, 4 Test, 8A PAIR; CA PROP.65: No Section 16. Other Information **Revision Date:** 04/29/2015 Additional Information About No data available. This Product: DISCLAIMER: This information is believed to be accurate and represents the best information Company Policy or Disclaimer: 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.

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