Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Printed: 01/05/2006 Revision: 01/05/2006 Supercedes Revision: 06/27/1996 Date Created: 06/27/1996

				Date Cre	
1. P	roduct and	Company I	dentification		
Product Code:	44570				
Product Name:	12(S)-HpETE				
Manufacturer Information					
Company Name:	Cayman Chemica	l Company			
Emergency Contact:	Cayman Chemica	l Company	(800)364-9897		
Information:	Cayman Chemical Company (734)971-3335				
Chemical Family:	Dihydroxy Fatty Acids				
CAS Number:	71774-10-2				
Synonyms:	12S-hydroperoxy	-5Z,8Z,10E,14Z-ei	cosatetraenoic acid;		
2. Cor	mposition/Ir	formation of	on Ingredients	5	
Hazardous Components (Chemical Name)	CAS #	Percentage	OSHA PEL	ACGIH TLV	Other Limits
1. 12(S)-HpETE	71774-10-2	0.01 %	No data.	No data.	No data.
2. Ethyl alcohol	64-17-5	99.99 %	8H TWA:1000 ppm (1900 mg/m3)	1000 ppm	No data.
Hazardous Components (Chemical Name)	RTECS #	OSHA STEL		ACGIH STEL	
1. 12(S)-HpETE	NA	No data.	No data.	No data.	No data.
2. Ethyl alcohol	KQ6300000	No data.	No data.	No data.	No data.
· · · · ·	3 Hazar	ds Identific		1	
Emergency Overview:	No data available				
Route(s) of Entry:	Inhalation? Yes		es? Yes Ingestion? Y	es Other: Injec	tion
	 injury with fibrosis. Material is irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. Repeated exposure may cause skin dryness or cracking. Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the Cl system of the fetus, producing a collection of effects which together consitutue fetal alcohol syndrome. These include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders and small size head. The toxicological properties of this compound have not been fully evaluated. Exposure may cause: Dizziness, drowsiness, headache, nausea, and vomiting. By Repeated exposure to ethanol may aggravate liver injury produced from other causes. 				
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By	The toxicological Exposure may car	cies, behavioral dis properties of this c use: Dizziness, drov	sorders and small size h compound have not bee wsiness, headache, nau	ead. n fully evaluated. sea, and vomiting.	fetal alcohol ning, motor and
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure:	The toxicological Exposure may can Repeated exposur	cies, behavioral dis properties of this c use: Dizziness, drov re to ethanol may aş	sorders and small size h compound have not bee wsiness, headache, naus ggravate liver injury pro	ead. n fully evaluated. sea, and vomiting.	fetal alcohol ning, motor and
Medical Conditions Generally Aggravated By	The toxicological Exposure may can Repeated exposur 4. First	cies, behavioral dis properties of this c use: Dizziness, drow re to ethanol may ag	sorders and small size h compound have not bee wsiness, headache, naus ggravate liver injury pro	ead. n fully evaluated. sea, and vomiting. oduced from other o	fetal alcohol ning, motor and causes.

MATERIAL SAFETY DATA SHEET 12(S)-HpETE

	5. Fire Fighting Measures			
Flach Dt.				
Flash Pt:	14.00 C Method Used: TCC			
Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19% at 25.0 C			
Autoignition Pt:	No data.			
Fire Fighting Instructions:	As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH			
	approved or equivalent), and full protective gear to prevent contact with skin and eyes.			
	Note: Flammable as diluted in ethanol.			
Flammable Properties and Hazards:	Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.			
	Container explosion may occur under fire conditions.			
	Emits toxic fumes under fire conditions.			
	Flammable liquid.			
	Vapors can travel to a source of ignition and flash back.			
Hazardous Combustion Products:	carbon dioxide			
	carbon monoxide			
Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires			
	involving this material.			
Unsuitable Extinguishing Media:	No data available.			
6	. Accidental Release Measures			
Steps To Be Taken In Case Material Is	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container			
Released Or Spilled:	After removal, ventilate contaminated area and flush thoroughly with water.			
	7. Handling and Storage			
Hazard Label Information:	Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilatio			
	Wash thoroughly after handling.			
Precautions To Be Taken in Handling:	Avoid breathing (dust, vapor, mist, gas).			
	Avoid contact with eyes, skin, and clothing.			
	Avoid prolonged or repeated exposure.			
	Do not reuse this container.			
	Keep away from sources of ignition.			
	Use with adequate ventilation.			
	Wash thoroughly after handling.			
Precautions To Be Taken in Storing:	Store at correct temperature.			
8. Ex	posure Controls/Personal Protection			
Protective Equipment Summary - Hazard	Eye wash station in work area Lab coat Latex disposable gloves Safety glasses Safety			
Label Information:	shower in work area Vent Hood			
Respiratory Equipment (Specify Type):	No data available.			
Eye Protection:	Safety glasses			
Protective Gloves:	Latex disposable gloves			
Other Protective Clothing:	Lab coat			
Engineering Controls (Ventilation etc.):	Good general ventilation should be sufficient to control airborne levels.			
Work/Hygienic/Maintenance Practices:	Do not take internally.			
Workinggleme maniferance ractices.	Facilities storing or utilizing this material should be equipped with an eyewash facility and a			
	safety shower.			
	Wash thoroughly after handling.			
	Physical and Chemical Properties			
Physical States:	[] Gas [X] Liquid [] Solid			
Melting Point:	No data.			
	No data.			
Boiling Point:				
Boiling Point: Autoignition Pt:	No data.			

MATERIAL SAFETY DATA SHEET 12(S)-HpETE

 Page: 3

 Printed:
 01/05/2006

 Revision:
 01/05/2006

 Supercedes Revision:
 06/27/1996

				Supercedes Rev	ISION: 06/27/19	
Flash Pt:	14.00 C Method:					
Explosive Limits:	LEL: 3.3%	at 25.0 C U	JEL: 19% at 2	5.0 C		
Specific Gravity (Water = 1):	No data.					
Vapor Pressure (vs. Air or mm Hg):	44.6 MM_HG at	t 20.0 C				
Vapor Density (vs. Air = 1):	No data.					
Evaporation Rate (vs Butyl Acetate=1):	No data.					
Solubility in Water:	0.8 mg/ml* at 25.0 C					
Other Solubility Notes:	*PBS pH 7.2, sol.	. in EtOH, DMSO,	& DMF			
Percent Volatile:	N.A.					
Corrosion Rate:	No data.					
Formula:	C20H32O4					
Molecular Weight:	336.50					
pH:	No data.					
Appearance and Odor:	A clear, colorless	solution.				
	10. Stabili	ity and Rea	ctivity			
Stability:		Stable [X]	y			
Conditions To Avoid - Instability:	No data available					
Incompatibility - Materials To Avoid:	strong inorganic a					
	strong oxidizing a					
Hazardous Decomposition Or Byproducts:	carbon dioxide					
	carbon monoxide					
Hazardous Polymerization:	Will occur []	Will not occur []	XI			
Conditions To Avoid - Hazardous	No data available		(1)			
Polymerization:						
	11. Toxicol	logical Infor	mation			
Toxicological Information:		<u> </u>		horoughly studied.		
Carcinogenicity/Other Information:	The toxicological effects of this compound have not been thoroughly studied. No data available.					
Carcinogenicity:		RC Monographs? I	No OSHA Regula	ated? No		
		gical Inform				
Ecological Information:			water may cause pollut	tion.		
	13. Dispos	al Conside	rations			
Waste Disposal Method:	Dispose in accord	lance with local, sta	ate and federal regulati	ons.		
	14. Trans	sport Inform	ation			
LAND TRANSPORT (US DOT)						
DOT Proper Shipping Name:	Ethyl alcohol					
DOT Hazard Class:	3					
DOT Hazard Label:	FLAMMABLE LIQUID					
UN/NA Number:	1170					
DOT Packing Group:	II					
Additional Transport Information:	Transport in acco	rdance with local, s	state, and federal regul	ations.		
	15. Reaul	atory Inforn	nation			
US EPA SARA Title III	g.					
lazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110	
	71774-10-2		No	No	No	
. 12(S)-HpETE			No	No	No	
	64-17-5	No		1		
e. Ethyl alcohol	64-17-5	INO	110			
	64-17-5	EPA CAA		EPA TSCA	CA PROP	

MATERIAL SAFETY DATA SHEET 12(S)-HpETE

Page: 4 Printed: 01/05/2006 Revision: 01/05/2006 Supercedes Revision: 06/27/1996

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65	
2. Ethyl alcohol	64-17-5	No	No	No	No	
16. Other Information						

Company Policy or Disclaimer

For research use only, not for human or veterinary clinical use.

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.