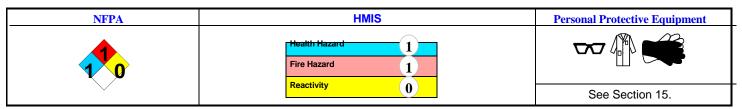




Material Safety Data Sheet



Section 1. Chem		Page Number: 1		
Common Name/ Trade Name	Vitamin E	Catalog Number(s).	YY1203, VI135, T1154	
		CAS#	10191-41-0	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	GA8746000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Vitamin E	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	(+/-)-alpha-tocopherol; all-rac-alpha-Tocopherol; 2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-(9C Ephanyl; 5,7,8-Trimethyltocol; 6-Chromanol, 2,5,7,8-tetramethyl-2-(4,8,12-trimethyldecyl)-		IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300	
Chemical Name	DL-alpha-Tocopherol			
Chemical Family	Not available.	CALL (310) 5	CALL (310) 516-8000	
Chemical Formula	C29H50O2			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Vitamin E		10191-41-0				100
Toxicological Data on Ingredients	Vitamin E: ORAL (LD50): Acute: >4000 mg/kg [Rat]. >4000 mg/kg [Mouse].					
Section 3. Hazards Identification						
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.					
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.					

Vitamin E	Page Number: 2				
Section 4. First Aid Measures					
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.				
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.				
Serious Skin Contact	Not available.				
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.				
Serious Inhalation	Not available.				
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.				
Serious Ingestion	Not available.				
Section 5. Fire and E	xplosion Data				
Flammability of the Product	May be combustible at high temperature.				
Auto-Ignition Temperature	340℃ (644뚜)				
Flash Points	CLOSED CUP: 240°C (464°F).				
Flammable Limits	Not available.				
Products of Combustion	These products are carbon oxides (CO, CO2).				
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.				
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.				
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.				
Special Remarks on Fire Hazards	Not available.				
Special Remarks on Explosion Hazards	Not available.				
Section 6. Accidental	Release Measures				
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.				
Large Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.				
Section 7. Handling a	and Storage				
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, metals, alkalis.				
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 15℃ (59年). Refrigerate. Sensitive to light. Store in light- resistant containers. Air Sensitive				

Vitamin E			Page Number: 3	
Section 8. Exposure	Controls/Personal Protection			
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.			
Personal Protection	Safety glasses. Lab coat. Gloves (impervious).			
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.			
Exposure Limits	Not available.			
Section 9. Physical a	nd Chemical Properties			
Physical state and appearance	Liquid. (Oily liquid. Viscous liquid.)	Odor	Odorless.	
Molecular Weight	430.69 g/mole	Taste	Tasteless.	
pH (1% soln/water)	Not applicable.	Color	Yellow. (Light.)	
Boiling Point	Not available.			
Melting Point	2.5°C (36.5°F) - 3.5°C.			
Critical Temperature	Not available.			
Specific Gravity	0.947-0.955 (Water = 1)			
Vapor Pressure	Not available.			
Vapor Density	Not available.			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) = 12.2			
Ionicity (in Water)	Not available.			
Dispersion Properties	See solubility in water, diethyl ether, acetone.			
Solubility	Soluble in diethyl ether, acetone. Insoluble in cold water. Soluble in ethanol, oils, fats.			
Section 10. Stability	and Reactivity Data			
Stability	The product is stable.			
Instability Temperature	Not available.			
Conditions of Instability	Excess heat, light, air, incompatible materials.			
Incompatibility with various substances	Reactive with oxidizing agents, metals, alkalis.			
Corrosivity	Non-corrosive in presence of glass.			
Special Remarks on Reactivity	Unstable to air and light, particularly when alkaline media. Tocopherols deteriorate slowly on exposure to air and UV light. Darkens on exposure to UV light. Tocopherols are stable to heat in the absence of oxygen, to strong acids, and to visible light. They are unstable to UV light, alkalies and, oxidation. Also incompatible with iron, silver, metal salts, oxidizing agents.			
Special Remarks on Corrosivity	Not available.			
Polymerization	Will not occur.			

Continued on Next Page

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ogical Information					
Absorbed through skin. Eye contact.					
Acute oral toxicity (LD50): >4000 mg/kg [Mouse].					
Not available.					
Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.					
Not available.					
Vitamin E is excreted into human milk Vitamin E has not been associated with affecting genetic material or adverse reproductive effects in humans. However, when Vitamin E was given to mice in large doses, it was associated with growth retardation of the fetus and an increase in cleft palate. Furthermore, it did affect the genetical material of lab rats when doses of 2500 ug/kg were given to them intraperitoneally.					
Acute Potential Health Effects: Skin: May cause minor skin irritation (contact dermatitis). Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation if inhaled. Ingestion: Vitamin E is an essential nutrient. This fat-soluble vitamin has been used in large doses as an antioxidant. It may cause digestive tract irritation with nausea, vomiting, diarrhea. May also cause fatique and weakness. Chronic Potential Health Effects: no information.					
cal Information					
Ecotoxicity in water (LC50): >10 mg/l 96 hours [Fish (Trout)]. >100 mg/l 48 hours [Daphnia (daphnia)]. >100 mg/l 72 hours [Algae (Algae.)].					
Not available.					
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.					
The product itself and its products of degradation are not toxic.					
Not available.					
Section 13. Disposal Considerations					
Waste must be disposed of in accordance with federal, state and local environmental control regulations.					
Section 14. Transport Information					
Not a DOT controlled material (United States).					
Not applicable.					
Not applicable.					





Vitamin E					Page Number: 5
Section 15. Other Re	egulatory Informa	tion and	l Pictograms		
Federal and State Regulations	TSCA 8(b) inventor	y: Vitamin	E		
Camornia Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.				
Other Regulations	No. 200-412-2). Canada: Listed on China: Listed on N Japan: Listed on N Korea: Listed on N	Canadian ational Inve ational Inve ational Inve on Nationa	Domestic Substance L entory. entory (ENCS).	-	Chemical Substances (EINECS
Other Classifications	WHMIS (Canada)		trolled under WHMIS (
	DSCL (EEC)	Not avai	lable.	Not available.	
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	1 1 0 B	National Fire Pro Association (U.S.A		Flammability 0 Reactivity Specific hazard
WHMIS (Canada) (Pictograms)					
DSCL (Europe) (Pictograms)					
TDG (Canada) (Pictograms)					
ADR (Europe) (Pictograms)					
Protective Equipment	Glov	ves (imperv	<i>v</i> ious).		
	Lab	coat.			
		applicable. ty glasses			
Continued on Next	Page				

Section 16. Other Information		
MSDS Code	V3140	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia	Owen on 3/31/2010.	Verified by Sonia Owen. Printed 3/31/2010.
CALL (310) 516-80	00	<u>_</u>
Notice to Reader		

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.