

Scientific Documentation

VI135, Vitamin E, 1 mg = 1.1 IU, USP

Not appropriate for regulatory submission. Please visit www.spectrumchemical.com or contact Tech Services for the most up-to-date information contained in this information package.

Spectrum Chemical Mfg Corp

769 Jersey Avenue New Brunswick, NJ 08901 Phone 732.214.1300



Dear Customer,

Thank you for your interest in Spectrum's quality products and services.

Spectrum has been proudly serving our scientific community for over 45 years. It is our mission to manufacture and distribute fine chemicals and laboratory products with Quality and delivery you can count on every time.

To accomplish our mission, Spectrum utilizes our sourcing leverage and supplier qualification expertise in offering one of the industry's most comprehensive line of fine chemical products under one brand, in packaging configurations designed to meet your research and production requirements. Our product grades include: USP, NF, BP, EP, JP, FCC, ACS, KSA, Reagent grade, as well as DEA controlled substances. We operate facilities in the United States on the East Coast, West Coast, as well as in Shanghai, China in order to provide the best logistical support for our customers.

At Spectrum, Quality is priority number one. Suppliers with the best qualifications are preferred and we employ full-functioning in-house analytical laboratories at each of our facilities. Our facilities and systems are USFDA registered and ISO certified. We frequently host customer audits and cherish opportunities for improvements. Quality is engrained into our culture. Quality is priority number one.

In the following pages, we have designed and prepared documented scientific information to aid you in your initial qualification or your continual use of our products. Please do not hesitate to contact us if further information or the most up-to-date documentation is desired from any of the covered areas.

We appreciate your business and we look forward to hearing from you.

Sincerely,

Alan Wang, MSQA, ASQ CQA Senior Manager of Technical Services techservices@spectrumchemical.com

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Specification for Vitamin E, 1 mg = 1.1 IU, USP (VI135)

Item Number	<u>VI135</u>
Item	Vitamin E, 1 mg = 1.1 IU, USP
CAS Number	10191-41-0
Molecular Formula	$C_{29}H_{50}O_2$
Molecular Weight	430.71
MDL Number	
Synonyms	

Test	Spec	Specification			
	Min	Max			
ASSAY (C20H50O2)	96.0 - 102.0 %				
ACIDITY		TO PASS TEST			
IDENTIFICATION		TO PASS TEST			
CERTIFIED KOSHER					
EXPIRATION DATE					
RESIDUAL SOLVENTS		TO PASS TEST			

Spectrum Chemical Mfg Corp

Corporate Headquarters: 769 Jersey Ave.

New Brunswick, NJ 08901

732.214.1300

West Coast Facility:

14422 S. San Pedro St. Gardena, CA 90248

310.516.8000





SAFETY DATA SHEET

Preparation Date: 2/13/2015	Revision Date: 2/13/2015	Revision Number: G1
Product identifier		

Product code: VI135

Product Name: VITAMIN E, 1 MG = 1.1 IU, USP

Other means of identification

Synonyms: 2H1Benzopyran6ol,3,4dihydro2,5,7,8-tetramethyl-2-(4,8,12trimethyltridecyl)-(9Cl)

(+-)-alphaTocopherol

dl-alpha-Tocopherol

CAS #: 10191-41-0
RTECS # GA8746000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Antioxidant.

Uses advised against No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

١	Not classified		 	

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Product code: VI135 Product name: VITAMIN E, 1 MG = 1.1 1/11

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Vitamin E	10191-41-0	100	*
10191-41-0			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray. Alcohol-

resistant foam.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter

and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides

Specific hazards: May be combustible at high temperatures. May be ignited by

heat, sparks or flames. Container explosion may occur

under fire conditions or when heated.

Special Protective Actions for Firefighters

Product code: VI135 Product name: VITAMIN E, 1 MG = 1.1 2 / 11

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

protective equipment. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill

for later disposal.

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste disposal

container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Protect from light. Sensitive to light. Store in light-resistant containers. Air sensitive. Store under nitrogen. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigerated. Keep at temperatures between 2 and 8 °C. Store away from incompatible materials.

Incompatible Materials:

Acids. Alkalis. Bases. Strong oxidizing agents. Iron salts. Silver salts.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
Vitamin E - 10191-41-0				

Product code: VI135 Product name: VITAMIN E, 1 MG = 1.1 3/11

Canada

Components	Alberta	British Columbia	Ontario	Quebec
	None	None	None	None
Vitamin E - 10191-41-0				

Australia and Mexico

Components	Australia	Mexico
Vitamin E	None	None
10191-41-0		

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Product code: VI135

Eye protection: Goggles. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room ventilation

or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an

approved/certified respirator or equivalent. .

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product name: VITAMIN E, 1 MG = 1.1 **4 / 11**

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid. Oily. Viscous. Yellow. Light yellow.

Odor:TasteFormula:Odorless.Tasteless.C29H50O2

Molecular/Formula weight:Flash point (°C):Flashpoint (°C/°F):430.71No data availableNo information available.

Flash Point Tested according to: Lower Explosion Limit (%): Upper Explosion Limit (%): Not available No information available

Autoignition Temperature (°C/°F): pH: Melting point/range(°C/°F):

No information available

No information available

No information available

2.5-3.5°C/36.5-38.3°F

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity: 393°C/739.4°F No information available No information available

Bulk density:Vapor pressure @ 20°C (kPa):Density (g/cm3):No information availableNo information available0.947-0.955

Evaporation rate:No information available

Vapor density:
No information available

VOC content (g/L):
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

Solubility:

12.2

No information available Insoluble in water

Soluble in Ethanol
Soluble in Acetone
Soluble in Chloroform
Soluble in Ether
Soluble in Oils

10. STABILITY AND REACTIVITY

Reactivity

Miscibility:

Reactive with acids Reacts with alkalis Reacts with bases

Reactive with oxidizing agents

Chemical stability

Stability: Stable at normal conditions. Sensitive to light. Exposure to light accelerates decomposition.

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.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Exposure to light. Incompatible materials.

Incompatible Materials: Acids. Alkalis. Bases. Strong oxidizing agents. Iron salts. Silver salts.

Hazardous decomposition products: Carbon oxides.

Product code: VI135 Product name: VITAMIN E, 1 MG = 1.1 5 / 11

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Eyes. Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

Vitamin E - 10191-41-0

LD50/oral/rat = >4000 mg/kg

LD50/oral/mouse = >4000 mg/kg

LD50/dermal/rabbit = No information available

LD50/dermal/rat = >3000 mg/kg

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = >4000mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = >4000mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = >3000mg/kg

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Not likely to cause skin irritation. May cause skin irritation in sensitive individuals.

Eye Contact: Not likely to cause eye irritation.

Inhalation Health injuries are not known or expected under normal use.

Product code: VI135 Product name: VITAMIN E, 1 MG = 1.1 6/11

Ingestion Not expected to be a health hazard for usual industrial handling

Health injuries are not known or expected under normal use

Vitamin E is usually nontoxic. However, large doses (more than 300 units daily) may rarely cause nausea, diarrhea, intestina/stomach cramps, fatique, unusal tiredness

or weakness, headache, dizziness, blurred vision, rash

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Ingestion of very high doses of vitamin E (greater than 800 units per day for

prolonged periods) have been associated with increased bleeding tendencies in vitamin K deficient people, altered metabolism of hormones (thyroid, pituitary and adrenal), altered immunity, impaired sexual function and may cause blood coagulation abnormalities and thromboembolism in susceptible people

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Vitamin E	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity

No data is available

Reproductive Effects: No information available

Developmental Effects: Vitamin E has not been associated with any adverse embryonic/fetal developmental

effects in humans. However, an increased frequency of cleft palate was observed in

offspring of mice given 500-1000 times the hume RDA of vitamin E in one

investigation. In another study fetal resorptions were more common among pregnant

rats fed diets containing 5-15% Vitamin E. Decreased fertility and decreased numbers of viable fetuses when pregnancy occurred were observed in female mice that were chronically treated with more than 500 times the human RDA of vitamin E. The relevance, if any, of these findings in animal studies to the use of vitamin E in

human pregancy is unknown

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure

Target Organs:

No information available No information available No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Product code: VI135 Product name: VITAMIN E, 1 MG = 1.1 7/11

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Vitamin E	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available **Hazard Class:** No information available

Subsidiary Risk: Not applicable

Packing Group: None

ERG No: No information available

Marine Pollutant No data available

DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available

Product code: VI135 Product name: VITAMIN E, 1 MG = 1.1

14. TRANSPORT INFORMATION

Subsidiary Risk:No information availablePacking Group:No information availableDescription:No information availableIMDG Page:No information availableMarine PollutantNo information availableMFAG:No information availableMaximum Quantity:No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:

No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Vitamin E	Present	Present 98-3- 1010	Present	Present (9)- 864	Present	Present	Present 233-466-0

U.S. Regulations

Vitamin E

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1890

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	evelopmental Toxicity Male Reproductive	
	_		Toxicity	Toxicity:
Vitamin E	Not Listed	Not Listed	Not Listed	Not Listed

Product code: VI135 Product name: VITAMIN E, 1 MG = 1.1 9/11

CERCLA/SARA

Components	CERCLA - Hazardous Substances and their	Hazardous	Hazardous	Chemical Category	Section 313 - Reporting de minimis
	Reportable Quantities	Substances and IPQs	Substances and RQs		
Vitamin E	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Vitamin E	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

Non-controlled

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Vitamin E	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory
		Reporting
Vitamin F	Not listed	Not listed

EU Classification

R-phrase(s)

not determined

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Vitamin E		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None.

Product code: VI135 Product name: VITAMIN E, 1 MG = 1.1 10 / 11

16. OTHER INFORMATION

Preparation Date:2/13/2015Revision Date:2/13/2015Prepared by:Sonia Owen

Disclaimer:

Product code: VI135

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) 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 SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product name: VITAMIN E, 1 MG = 1.1



Manufacturer

Product Covered: VI135, Vitamin E, 1 mg = 1.1 IU, USP

Spectrum takes ownership as the manufacturer for the Spectrum product listed above and provides full quality assurance, customer service, and technical product support.

While information concerning the raw material manufacturer of our starting materials is considered proprietary, such information can be made available upon request contingent on demonstration of business volume justification and successful execution of confidential disclosure agreement (CDA).

Requests for disclosure of proprietary raw material manufacturer information may be submitted to the assigned account representative for consideration.

Sincerely,

Alan Wang, MSQA, ASQ CQA Senior Manager of Technical Services techservices@spectrumchemical.com

Certificate of Registration



This is to certify that the quality management system of

Spectrum Chemicals and Laboratory Products, Lac

Main Site: 14422 South San Pedro Street, Gardena, California, 90248, USA

Additional Sites: 13915 South Main Street, Los Angeles, California, 90061, USA 755 Jersey Avenue, New Brunswick, New Jersey, 08901, USA 769 Jersey Avenue, New Brunswick, New Jersey, 08901, USA 7400 North Oracle Road, Suite 221, Tucson, Arizona, 85704, USA

has been assessed and registered by Intertek as conforming to the requirements of

ISO 9001:2008

The quality management system is applicable to

California and New Jersey sites: The manufacture and distribution of specialty fine chemicals, solutions, equipment, supplies and products for the laboratory, pharmaceutical, food, healthcare, cosmetic, fragrance, biotechnology, environmental and process industries.

Arizona site: Supporting Spectrum's two manufacturing facilitates by: selecting and qualifying distributors of Laboratory and Safety Equipment; processing bids and quotes to generate new sales opportunities; sourcing bulk chemicals in support of bulk bids and quotes; assisting production operations through order expediting and IT infrastructure support.

Certificate Number: 94-316m-01

Initial Certification Date: 27 December 1994 Certificate Issue Date: 29 January 2016 Certificate Expiry Date: 14 September 2018

Calin Moldovean, President Intertek Testing Services NA, Inc. 900 Chelmsford Street, Suite 301-3, Lowell, MA, USA ARAB
ACCREDITED
ISO/IEC17021
MANAGEMENT SYSTEMS
CERTIFICATION BODY



In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at certificate.validation@intertek.com or by scanning the code to the right with a smartphone.

Certificate of Registration



This is to certify that the quality management system of

Spectrum China Ltd.

Building A20, No. 3802, Shengang Road, Songjiang District, Shanghai, China

has been assessed and registered by Intertek as conforming to the requirements of

ISO 9001: 2008

The quality management system is applicable to:

Provision of service of purchase, testing and sales for chemical products, repacking of non-hazardous chemical products.

Organization Code: 77762704-8
Certificate Number: 111310001-01
Certificate Issue Date: 17 November 2015
Certificate Expiry Date: 14 September 2018







Authorised Signature: Calin Moldovean – President, Business Assurance Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF, United Kingdom Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.

In the issuance of this certificate, Intertek assumes no liability to any party other than to the client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at certificate.com or by scanning the code to the right with a smartphone.

The annual validity of the certificate can also be checked through the website http://www.cnca.gov.cn of CNCA in China.





March 28, 2016

Certificate of cGMP

Dear Valued Customer:

Spectrum Chemicals and Laboratory Products certify that our USP, NF, FCC, EP, BP, JP, and food grade products are produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Spectrum is an FDA registered and inspected drug establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632
Spectrum-New Brunswick, NJ: 2246824
Spectrum -Shanghai, China: 3006174778

Thank you for your interest with Spectrum products. Please feel free to contact the Quality Assurance department at 310-516-8000 or via email at qualityassurance@spectrumchemical.com if we may be of further assistance.

Sincerely,

Michelle Weston

Quality Assurance Specialist

Michelle Weston



April 18, 2016

Certificate of cGMP

Dear Valued Customer:

Spectrum Chemicals and Laboratory Products certify that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name	
VI135	Vitamin E, 1 mg = 1.1 IU, USP	

Spectrum is an FDA registered and inspected drug establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632
Spectrum-New Brunswick, NJ: 2246824
Spectrum-Shanghai, China: 3006174778

Thank you for your interest with Spectrum products. Please feel free to contact the Quality Assurance department at 310-516-8000 or via email at qualityassurance@spectrumchemical.com if we may be of further assistance.

Sincerely,

Michelle Weston

Quality Assurance Specialist

Michelle Wester



May 3, 2016

Re: Vitamin E, 1 mg = 1.1 IU, USP- VI135

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

We at Spectrum Chemical Mfr. Corp. understand the concern regarding Bovine Spongiform Encephalopathy (BSE). Please be assured that the chemical

Vitamin E, 1 mg = 1.1 IU, USP- VI135

is BSE/TSE free.

If you have any further questions, please contact Tech Services at (310) 516-8000 Extension 5471, or by email at techservices@spectrumchemical.com.

Sincerely,

Darlene Dagdag-Lyudmirskiy Technical Services Spectrum Chemical Mfr. Corp.

This document has been produced electronically and is valid without a signature



May 3, 2016

Re: Vitamin E, 1 mg = 1.1 IU, USP- VI135

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

We at Spectrum Chemical Mfr. Corp. understand the concern regarding the presence of allergens in raw materials. Please be assured that the following chemical does not contain (Milk; Egg; Fish; Shellfish; Sulfur dioxide and sulfites at concentrations of more than 10 mg/kg or 10 mg/liter expressed as SO₂; Tree nuts; Wheat; Peanuts; Soy; Cereals containing Gluten; Celery; Mustard; Sesame Seed).

Vitamin E, 1 mg = 1.1 IU, USP- VI135

If you have any further questions, please contact Tech Services at (310) 516-8000 Extension 5471, or by email at techservices@spectrumchemical.com.

Sincerely,

Darlene Dagdag-Lyudmirskiy Technical Services Spectrum Chemical Mfr. Corp.

This document has been produced electronically and is valid without a signature



May 3, 2016

Re: Vitamin E, 1 mg = 1.1 IU, USP- VI135

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

We at Spectrum Chemical Mfg. Corp. understand the concern regarding Aflatoxins in raw materials. To the best of our knowledge, the product listed below is not contaminated with Aflatoxins. Aflatoxins are not used in production. The following product does not come in contact with Aflatoxins at any stage of production.

Vitamin E, 1 mg = 1.1 IU, USP- VI135

If you have any further questions, please contact Tech Services at (310) 516-8000 Extension 5471, or by email at techservices@spectrumchemical.com.

Sincerely,

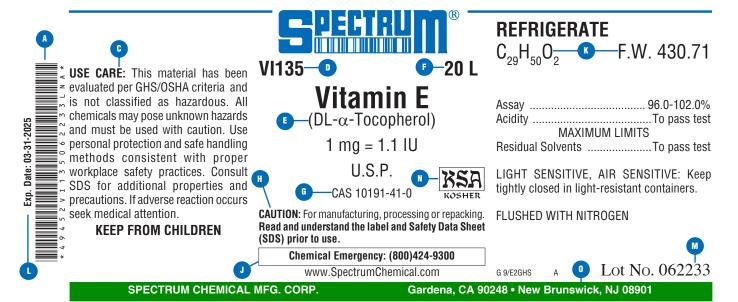
Darlene Dagdag-Lyudmirskiy Technical Services Spectrum Chemical Mfr. Corp.

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Label Information

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication.



- A Bar Code
- GHS Hazard Pictograms
- Warning, Safety Data and Precautionary Information
- Product Catalog Number
- Item Name, Form, Grade
- Storage Color Band

- Size/Quantity
- Chemical Abstracts Service (CAS) Registry Number
- Caution Information
- DOT Shipping Information
- Toll-Free 24-Hour Chemical Emergency Telephone Number
- Empirical Formula, Formula Weight and Technical Specifications Panel
- Expiration Information
- Lot Number
- Kosher Certified by Kosher Supervision of America (KSA).

This color-coded band indicates the hazard most likely to be posed by that material under storage conditions. The criteria used to assign band colors have been established by the Storage Code working group of the Society for Chemical Hazard Communication (SCHC). It is recommended that like colors be stored together, unless otherwise stated, based on the color codes indicated to the right. However, it is the responsibility of the customer to check with their local fire department for possible conflicts with our recommendations when storing hazardous chemicals.

YELLOW: Oxidizer

RED: Flammable

GREEN: General Storage

BLUE: Health Hazard

WHITE: Corrosive

Spectrum Chemical Mfg Corp

Corporate Headquarters: 769 Jersey Ave.

New Brunswick, NJ 08901

West Coast Facility:

14422 S. San Pedro St. Gardena, CA 90248

310.516.8000

732.214.1300



Certificate Of Analysis

Item Number	VI135	Lot Number	1EJ0475
Item	Vitamin E, 1 mg = 1.1 IU, USP		
CAS Number	10191-41-0		
Molecular Formula	$C_{29}H_{50}O_2$	Molecular Weight	430.71

Test	Specification		Result
	min	max	
$ASSAY (C_{20}H_{50}O_2)$	96.0 - 102.0 %		99.3 %
ACIDITY		TO PASS TEST	PASSES TEST
IDENTIFICATION		TO PASS TEST	PASSES TEST
CERTIFIED KOSHER			KOSHER
EXPIRATION DATE			18-JUN-2017
RESIDUAL SOLVENTS		TO PASS TEST	
CLASS 2 (solvent) / TOLUENE			<890 ppm
APPEARANCE			CLEAR YELLOW LIQUID
MANUFACTURE DATE			19-JUN-2015

Spectrum Chemical Mfg Corp 14422 South San Pedro Street Gardena 90248 CA



Certificate of Analysis Results Certified By:

Adan Hernandez

Quality Control Manager

Spectrum Chemicals & Laboratory Products

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.



Certificate Of Analysis

Item Number	VI135	Lot Number	2EK0159
Item	Vitamin E, 1 mg = 1.1 IU, USP		
CAS Number	10191-41-0		
Molecular Formula	$C_{29}H_{50}O_2$	Molecular Weight	430.71

Test	Specification		Result
	min	max	
$ASSAY (C_{29}H_{50}O_2)$	96.0 - 102.0 %		99.2 %
ACIDITY		TO PASS TEST	PASSES TEST
IDENTIFICATION		TO PASS TEST	PASSES TEST
CERTIFIED KOSHER			KOSHER
EXPIRATION DATE			30-JUL-2017
RESIDUAL SOLVENTS		TO PASS TEST	
CLASS 2 (solvent) TOLUENE			<890 ppm
APPEARANCE			CLEAR YELLOW VISCOUS OIL
DATE OF MANUFACTURE			31-JUL-2015

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Certified By:

Mulbah F. Dwanah Laboratory Supervisor

Spectrum Chemicals & Laboratory Products

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.



January 26, 2016

RE: Lot Numbering System

Dear Valued Customer:

This letter is to inform you of Spectrum Chemicals and Laboratory Products' Lot Numbering System. The system is based on an alpha-numerical sequence which provides the month, year and location of production.

The lot numbering system utilized until 2010 is a sequence of **six characters**, two letters followed by four numbers. The first letter represents the year, for example, Y denotes 2009 and Z denotes 2010. The second letter represents the month and site, for example, A-L denotes January through December at Spectrum's Gardena, CA facility, while M-X denotes January through December at the New Brunswick, NJ facility. The following four numbers are sequentially assigned.

Example: Zl0928 = The 928th material produced in California in September 2010

The lot numbering system utilized for 2011 and forward, is a sequence of **seven characters**. The first character, a number, represents the production facility:

1 = Gardena, CA Facility

2 = New Brunswick, NJ Facility

3 = China Facility

The second character, a letter, represents the year. For example, A denotes 2011 and B denotes 2012. The third character, a letter, represents the month, with A denoting January and L denoting December. The following four numbers are sequentially assigned.

Example: 2AA0706 = The 706th material produced in New Jersey in January 2011

Thank you for your interest with Spectrum products. Please feel free to contact us at 310-516-8000 or via email at qualityassurance@spectrumchemical.com if we may be of further assistance.

Sincerely,

Michael Dang

Manager, GMP Compliance



Stability – Shelf Life Guidance

Product Covered: VI135, Vitamin E, 1 mg = 1.1 IU, USP

Spectrum Chemical's manufacturing partner has assigned the following shelf life guidance for the product listed above.

The product, VI135, Vitamin E, 1 mg = 1.1 IU, USP, is assigned a 24 months shelf life from date of manufacturing. The quality and integrity of the chemical depends on the handling and storage conditions. Please refer to the Safety Data Sheet for proper storage and handling procedures.

Adan R. Hernandez Quality Control Manager

Corporate Headquarters 769 Jersey Avenue New Brunswick, NJ 08901-3605 The following product(s) prepared by the named company are certified kosher with the stated requirements:

Spectrum Laboratory Products, Inc.

S-0032

14422 S. San Pedro Street Gardena CA 90248 **USA**

Product Name Vitamin E, 1 mg = 1.1 IU, USP - VI135

Brand Spectrum

UKD-ID KSAV3-R2J4K2

P D/P/M

Symbol Required KSA

Special Conditions

This certificate expires on Feb 28, 2017

Rabbi Binyomin Lisbon **Kashrus Administrator**

Placing the KSA logo on products not listed above constitutes an un-authorized use of the KSA symbol, which is a federally registered trademark.