



SAFETY DATA SHEET

Preparation Date: 9/7/2017 Revision date 8/7/2019 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: T2764

Product Name: (+)-ALPHA-TOCOPHEROL

Other means of identification

Synonyms: alpha-Tocopherol

d-alpha-Tocopherol

Vitamin E

Vitamin E alpha

CAS #: 59-02-9
RTECS # DJ2900000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

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

Emergency telephone number

Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - 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

Not classified

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Product code: T2764 Product name: Page 1/11

(+)-ALPHA-TOCOPHEROL

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
(+)-alpha -Tocopherol	59-02-9	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

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

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

Eye Contact: Flush eyes 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 Monoxide, Carbon Dioxide.

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

by heat, sparks or flames.

Special Protective Actions for Firefighters

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 containment Stop 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. 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. Freeze. Store at -20 °C (-25 °C to -10 °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

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
(+)-alpha -Tocopherol	59-02-9	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
(+)-alpha -Tocopherol	59-02-9	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
(+)-alpha -Tocopherol	59-02-9	None	None

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

Eye protection: Goggles or 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

Physical state: Appearance: Color:

Liquid Oily. Viscous. Yellow. Light yellow.

Odor:TasteFormulaOdorless.Tasteless.C29H50O2

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F): no data available 110 °C/230 °F

Flash Point Tested according to: Autoignition Temperature (°C/°F):

Product code: T2764 Product name: Page 4/11

(+)-ALPHA-TOCOPHEROL

Closed cup No information available **Lower Explosion Limit (%):**

Upper Explosion Limit (%): Melting point/range(°C/°F): No information available

2.5-3.5°C/36.5-38.3°F

Boiling point/range(°C/°F): **Bulk density:**

393°C/739.4°F

No information available

Specific gravity:

No information available No information available

Evaporation rate: Vapor density:

No information available No information available

Partition coefficient Odor threshold (ppm):

No information available (n-octanol/water): log Kow = 12.2

Miscibility: Solubility:

No information available Insoluble in water

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

No information available

Decomposition temperature(°C/°F):

No information available

Density (g/cm3):

0.947-0.955

Vapor pressure @ 20°C (kPa):

No information available

VOC content (q/L):

No information available

Viscosity:

No information available

10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids Reactive with alkalis Reacts with strong bases Reactive with oxidizing agents

Chemical stability

Stable under recommended storage conditions. Sensitive to light. Exposure to light Stability:

accelerates decomposition. Unstable to air and light, particularly when in 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.

Other Information

Corrosivity: No information available

Product code: T2764 Product name: Page 5/11 (+)-ALPHA-TOCOPHEROL

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Skin.

Acute Toxicity

Component Information

(+)-alpha -Tocopherol
CAS No 59-02-9

LD50/oral/rat = > 7000 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Toxicity = > 7000 mg/kg

LD50/oral/mouse =

Value - Acute Tox = No information available

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

VALUE - Acute Tox = No information available

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: T2764 Product name: Page 6 / 11 (+)-ALPHA-TOCOPHEROL

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 mild

gastrointestinal irritation with nausea, diarrhea, intestinal/stomach cramps, fatigue,

unusual 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.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
(+)-alpha -Tocopherol	59-02-9	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

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

(+)-ALPHA-TOCOPHEROL

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo 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

Component	CAS No	RCRA - F Series	RCRA - K Series	RCRA - P Series	RCRA - U Series
		Wastes	Wastes	Wastes	Wastes
(+)-alpha -Tocopherol	59-02-9	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

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

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group

No information available
No information available

Subsidiary Risk: No information available

IMDG

UN-No: Not Regulated

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

RID

UN Number Not Regulated

No information available **Proper Shipping Name:** No information available Transport hazard class(es) **Subsidiary Risk:** No information available Packing group No information available

ICAO (air)

UN-No: Not Regulated

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

IATA

UN Number Not Regulated

No information available **Proper Shipping Name:** Transport hazard class(es) No information available **Subsidiary Risk:** No information available Packing group No information available **Precautionary Statements -**No information available

Response

No information available **Special Provisions**

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
(+)-alpha -Tocopherol	59-02-9	PresentACTIV E	Present KE-10750	Present	Present (9)-864	Present	Present	Present 200-412-2

U.S. Regulations

(+)-alpha -Tocopherol

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)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:

Product code: T2764 Product name: Page 9/11

			í		
I(±)-ainha - I oconherol	59-02-9	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
(+)-alpha -Tocopherol	59-02-9	None	None	None	None	None

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
(+)-alpha -Tocopherol	59-02-9	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)	
(+)-alpha -Tocopherol	59-02-9	Present	Not Listed	

Component	CAS No	CEPA Schedule I - Toxic Substances
(+)-alpha -Tocopherol	59-02-9	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
(+)-alpha -Tocopherol	59-02-9	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
(+)-alpha -Tocopherol	59-02-9	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Product code: T2764 Product name: Page 10 / 11

Component	CAS No	Classification	Concentration	Safety Phrases
			Limits:	
(+)-alpha -Tocopherol	59-02-9		No information	

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

Indication of danger:

None

16. OTHER INFORMATION

Preparation Date:9/7/2017Revision date8/7/2019Prepared by:Sonia Owen

Disclaimer: 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 code: T2764