



NEW DIRECTIONS

A R O M A T I C S

MATERIAL SAFETY DATA SHEET

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Vitamin E (USP31/FCCV)
Chemical Formula: C₂₉H₅₀O₂
Synonyms: d-alpha-tocopherol, Natural Vitamin E, 5,7,8-trimethyltolcol, (+)-alpha-tocopherol
INCI Name: Tocopherol
CAS #: 59-02-9
Country of Origin: China

SECTION: 1.2 COMPANY IDENTIFICATION

Company: New Direction Aromatics Inc.
Address: 6781-Columbus Road, Mississauga. L5T 2G9 Canada
Telephone No: 905-362-1915
FAX: 905-362-1926

24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC

SECTION: 2. COMPOSITION / INFORMATION INGREDIENTS

Constituents:	α-tocopherol, soybean oil	
D-alpha-tocopherol 67.2% (CAS# 59-02-9)	Soybean oil 32.8% (CAS# 8001-22-7)	Chemical Formula C ₆ H ₈ O ₆

SECTION: 3. HAZARDS IDENTIFICATION

Potential Acute Health Effect Slightly hazardous in case of eye contact (irritant)

Potential chronic health Effects Carcinogenic Effects: N/A
Mutagenic effects: N/A
Teratogenic Effects: N/A
Development toxicity: N/A
Repeated or prolonged exposure is not known to aggravate medical condition.

SECTION: 4. FIRST AID MEASURES

Eye Contact: Check for remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

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. Seek medical attention immediately.

SECTION: 5. FIRE FIGHTING MEASURES

Products of combustion Carbon oxides (CO, CO₂)

Fire fighting media and instructions: Small Fire: Use Dry chemical powder
Large Fire: Use water spray, fog or foam, CO₂

Special Remarks on Fire Hazards: When heated to decomposition it emits acrid smoke and fumes.



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Special remarks on
Explosion Hazards

N/A

SECTION: 6. ACCIDENTAL RELEASE MEASURES

Small spill and leak

Use appropriate tools to put the spilled solid in an appropriate waste container. Finish cleaning by spreading water on the containment surface and dispose of according to local and regional authority requirements.

Large spill and leak

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Personal protection
in case of large spill**

Splash goggles, Gloves. Dust respirator, Lab coat.

SECTION: 7. HANDLING AND STORAGE

Precaution

Keep away from heat. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.

Incompatibility

Slightly reactive with metals

Storage:

Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from heat and away from strong oxidizing agents.

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value (TLV).

Personal Protection

Eyes: Safety glasses
Body: Lab coat
Respiratory: No special protective clothing is required. Avoid inhalation of product.

Hands: Gloves

Feet: N/A

Exposure Limits:

N/A.

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Golden yellow to red brown liquid.

Odor:

Characteristic odor.

Solubility:

Soluble in alcohol and oils. Insoluble in water.

Specific Gravity:

0.945 – 0.965 @ 20°C

Refractive Index:

1.494 – 1.498 @ 20°C

Assay (IU/G):

950 IU – 1200 IU (95.0 – 120 %)

Acid Value:

< 1.0 ml

Heavy Metals:

< 10 ppb

Total Plate Count:

<1000 cfu/g.



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SECTION: 10. STABILITY AND REACTIVITY

Stability:	Chemically stable.
Conditions to Avoid:	N/A
Materials to Avoid:	Slightly reactive with metals.
Corrosivity	N/A
Flammability:	May be Combustible liquid at High Temperature.
Hazardous Polymerization:	Will not occur.
Decomposition Products:	When heated to decomposition produces fumes of Carbon dioxide and carbon monoxide smoke.

SECTION: 11. TOXICOLOGICAL INFORMATION

Route of entry	Absorbed through skin, Eye contact, inhalation, ingestion.
Toxicity to animals	Acute oral toxicity (LD50): 11900 mg/kg [Mouse]
Acute effect on Humans	
Eyes:	Slightly hazardous in case of eye contact (irritant)
Skin:	N/A
Inhalation	Slightly hazardous in case of inhalation.
Ingestion	N/A
Chronic Effects on Humans	
Carcinogenic Effects:	N/A
Mutagenic effects:	N/A
Teratogenic Effects:	N/A
Development toxicity:	N/A

Repeated or prolonged exposure is not known to aggravate medical condition.

SECTION: 12. ECOLOGICAL INFORMATION

Eco-toxicity:	N/A
BOD5 and COD:	N/A
Product of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the product of Biodegradation	The products itself and its products of degradation are non toxic.

SECTION: 13. DISPOSAL CONSIDERATION

Waste Information:	Waste must be disposed of in accordance with local, provincial and federal regulations.
Waste stream	N/A

SECTION: 14. TRANSPORT INFORMATION

TDG Classification:	Not controlled under TDG Canada; Check appropriate authority
IATA Shipping (Air):	N/A; Check appropriate authority
IMDG Shipping	N/A; Check appropriate authority

SECTION: 15. REGULATORY INFORMATION

WHMIS (Canada):	Not controlled
Regulatory Lists	CEPA DSL: d-alpha-tocopherol
Other Regulations:	EINECS: This product is on the European Inventory of Existing Commercial



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Other Classifications: Chemical Substances.
HCS (U.S.A.) Not controlled under the HCS (USA)
USA Regulatory Lists No products were found
DSCL (EEC) This product is not classified according to the EU regulations.

HMIS (USA) Rating: Health: 1
Flammability: 1
Reactivity: 0
Personal Protection a

SECTION: 16. OTHER INFORMATION

Revision Date: September 12, 2011

SECTION: 17. DISCLAIMER

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CERTIFICATE OF ANALYSIS

Product: Vitamin E (USP31/FCCV)
Lot No.: 16014-A09
Manufacturing Date: February 2011
Best Before: February 2013

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Golden yellow to red brown oily liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.945 – 0.965 @ 20°C	Complies
Refractive Index:	1.494 – 1.498 @ 20°C	Complies
Assay (IU/G):	950 IU – 1200 IU (95.0 – 120 %)	1011.1 IU
Acid Value:	2.0 max	0.50
Total Plate Count:	<1000 cfu/g.	<10cfu/g

DISCLAIMER:

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