



# NEW DIRECTIONS

## A R O M A T I C S

### MATERIAL SAFETY DATA SHEET

#### SECTION: 1.1 PRODUCT IDENTIFICATION

**Product Name:** Vitamin E MT50 – Raw Material  
**Synonyms:** Mixed tocopherol oils 50% USP  
**INCI Name:** Tocopherol  
**CAS #:** mixture  
**Country of Origin:** China

#### SECTION: 1.2 COMPANY IDENTIFICATION

**Company:** New Directions 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:** D-alpha-tocopherol, beta-tocopherol, gamma-tocopherol, delta-tocopherol, soya bean oil  
d- $\alpha$ : 4.75%; d- $\beta$ + $\gamma$ : 30.85%; d- $\delta$ : 14.80%

**Total Tocopherol** 50% in Soya bean Oil

#### 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, CO<sub>2</sub>)

**Fire fighting media and instructions:** Small Fire: Use Dry chemical powder  
Large Fire: Use water spray, fog or foam, CO<sub>2</sub>

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



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#### SECTION: 6. ACCIDENTAL RELEASE MEASURES

<b>Small spill and leak</b>	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.
<b>Large spill and leak</b>	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.
<b>Personal protection in case of large spill</b>	Splash goggles, Gloves. Dust respirator, Lab coat.

#### SECTION: 7. HANDLING AND STORAGE

<b>Precaution</b>	Keep away from heat. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.
<b>Incompatibility</b>	Slightly reactive with metals
<b>Storage:</b>	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

<b>Engineering controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value (TLV).
<b>Personal Protection</b>	Eyes: Safety glasses Body: Lab coat Respiratory: No special protective clothing is required. Avoid inhalation of product. Hands: Gloves Feet: N/A
<b>Exposure Limits:</b>	N/A.

#### SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Golden yellow to reddish viscous liquid.
<b>Odor:</b>	Characteristic odor.
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.
<b>Specific Gravity:</b>	0.900 – 0.966 @ 25°C
<b>Soya bean Oil Content:</b>	50 %
<b>Total Mixed Tocopherols:</b>	50 %
<b>Acid Value:</b>	2 max
<b>Total Plate Count:</b>	<1000 cfu/g. max
<b>Specific Rotation</b>	+20°

#### SECTION: 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Chemically stable.
<b>Conditions to Avoid:</b>	N/A



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

#### SECTION: 11. TOXICOLOGICAL INFORMATION

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

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

#### SECTION: 13. DISPOSAL CONSIDERATION

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

#### SECTION: 14. TRANSPORT INFORMATION

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

#### SECTION: 15. REGULATORY INFORMATION

<b>WHMIS (Canada):</b>	Not controlled
<b>Regulatory Lists</b>	CEPA DSL: d-alpha-tocopherol
<b>Other Regulations:</b>	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
<b>Other Classifications:</b>	HCS (U.S.A.)      Not controlled under the HCS (USA) USA Regulatory Lists      No products were found



# NEW DIRECTIONS AROMATICS

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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: October 17, 2011**

**IRS**

### SECTION: 17. DISCLAIMER

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**CERTIFICATE OF ANALYSIS**

**Product:** Vitamin E (MT50) - Raw Material  
**Lot No.:** 16027-A34  
**Manufacturing Date:** December 2010  
**Best Before:** December 2012

<b><u>Properties</u></b>	<b><u>Specification</u></b>	<b><u>Result</u></b>
Appearance:	Golden yellow to reddish viscous 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	1.43
Total Plate Count:	<1000 cfu/g.	<10cfu/g

**DISCLAIMER:**

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