SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label
: Vitamin E Acetate

Product Code(s)
: Not available.

Recommended use of the chemical and restrictions on use
: Personal care applications

Chemical family
: Organic materials

Name, address, and telephone number of the supplier:

Essential Ingredients
2408 Tech Center Parkway
Suite 200
Lawrenceville, GA, US 30043

Supplier’s Telephone # : (770) 831-9010
24 Hr. Emergency Tel # : (800) 424-9300 (CHEMTREC)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical
This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Label elements

Hazard pictogram(s)

Signal Word
Not required

Hazard statement(s)
Not regulated.

Precautionary statement(s)
Keep out of the reach of children.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL-Alpha-Tocopheryl acetate</td>
<td></td>
<td>7695-91-2</td>
<td>95.0 - 100.0</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

Description of first aid measures
SAFETY DATA SHEET

**Ingestion**: Rinse mouth thoroughly with water. Drink plenty of water. If symptoms develop, seek medical attention.

**Inhalation**: If breathed in, move person into fresh air. If irritation or symptoms develop, seek medical attention.

**Skin contact**: For skin contact, wash with soap and water. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact**: Flush eyes with water for at least 15 minutes while holding eyelids open. If irritation or symptoms develop, seek medical attention.

**Most important symptoms and effects, both acute and delayed**: None assigned.

**Indication of any immediate medical attention and special treatment needed**: Treat symptomatically. IF exposed or concerned: Get medical attention/advice.

### SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing media**
- **Suitable extinguishing media**: Carbon dioxide, dry chemical or alcohol foam.
- **Unsuitable extinguishing media**: Water spray may ONLY be useful in cooling equipment exposed to heat and flame.

**Special hazards arising from the substance or mixture / Conditions of flammability**
- Not flammable under normal conditions of use.

**Flammability classification (OSHA 29 CFR 1910.106)**
- Combustible liquid IIIB

**Hazardous combustion products**
- Oxides of carbon, toxic fumes, various hydrocarbons, aldehydes.

**Special protective equipment and precautions for firefighters**
- **Protective equipment for fire-fighters**: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.
- **Special fire-fighting procedures**: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**
- All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions**
- Ecological injuries are not known or expected under normal use. Expected to be biodegradable

**Methods and material for containment and cleaning up**
- Absorb material with inert absorbent, and place into labelled containers for disposal. Wash area thoroughly with a detergent solution and rinse well with water.

**Special spill response procedures**
- Wear appropriate protective equipment.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**
SAFETY DATA SHEET

Conditions for safe storage:
- Risk for spontaneous combustion if substantial quantities of product are left on porous organic materials (cotton waste or rag). Used rags or other cleaning materials may begin to burn by themselves if improperly discarded. Avoid excessive heat, sparks and open flame. Spilled material will create slippery surfaces. Clean up promptly.
- Store product in a dry, fresh place, away from light. Suggested storage temperature is 20°C. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.
- Strong oxidizing agents

Incompatible materials:
- Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>DL-Alpha-Tocopheryl acetate</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

Exposure controls

Ventilation and engineering measures:
- General mechanical ventilation should be sufficient.

Respiratory protection:
- None required under normal conditions. If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators.

Skin protection:
- Wear impervious gloves, such as PVC, Rubber, Butyl rubber, Neoprene, Nitrile, or Viton

Eye / face protection:
- Chemical safety glasses with side shields or splash proof goggles.

Other protective equipment:
- Other equipment may be required depending on workplace standards.

General hygiene considerations:
- Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking, or using toilet facilities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
- Slightly greenish-yellow liquid.

Odour:
- Mild oily odour

Odour threshold:
- Not available.

pH:
- Not available.

Melting/Freezing point:
- -27.5 °C

Initial boiling point and boiling range:
- >300 °C

Flash point:
- 210 °C

Flashpoint (Method):
- Not available.

Evaporation rate (BuAe = 1):
- Not available.

Flammability (solid, gas):
- Not applicable.

Lower flammable limit (% by vol.):
- Not available.

Upper flammable limit (% by vol.):
- Not available.

Oxidizing properties:
- None.

Explosive properties:
- Not expected to be sensitive to mechanical impact or static discharge.

Vapour pressure:
- 1.3 mm Hg (0.1 73 kPa)

Vapour density:
- Not available.
SAFETY DATA SHEET

Relative density / Specific gravity
: 0.96 g/cm³ (water = 1)

Solubility in water
: Sparingly soluble in water

Other solubility(ies)
: None known.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: Not available.

Auto-ignition temperature
: 303 °C

Decomposition temperature
: Not known, but expected to be high.

Viscosity
: Not available.

Volatiles (% by weight)
: Not available.

Volatile organic Compounds (VOC's)
: None known.

Absolute pressure of container
: Not applicable.

Flame projection length
: Not applicable.

Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity
: Not normally reactive.

Chemical stability
: Stable under normal conditions.

Possibility of hazardous reactions
: Hazardous polymerization does not occur.

Conditions to avoid
: Avoid contact with incompatible materials.

Incompatible materials
: Strong oxidizing agents

Hazardous decomposition products
: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation
: YES

Routes of entry skin & eye
: YES

Routes of entry Ingestion
: YES

Routes of exposure skin absorption
: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation
: Inhalation overexposure is not expected at ambient temperatures.

Sign and symptoms ingestion
: Adverse effects are not expected. For product: Oral LD50 = >5000 mg/kg (rat)

Sign and symptoms skin
: Skin contact with the liquid is not expected to cause irritation.

Sign and symptoms eyes
: Eye contact with the liquid is not expected to cause irritation.

Potential Chronic Health Effects
: None known or reported by the manufacturer.

Mutagenicity
: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
## SAFETY DATA SHEET

**Carcinogenicity**
- No component of this product present at levels greater than, or equal to, 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, IARC, OSHA, or NTP.

**Reproductive effects & Teratogenicity**
- Not expected to cause reproductive effects.

**Sensitization to material**
- None known or reported by the manufacturer.

**Specific target organ effects**
- No data available to indicate the product, or any components present at greater than 1%, are classified as hazardous for target organ toxicity.

**Medical conditions aggravated by overexposure**
- None known.

**Synergistic materials**
- None known or reported by the manufacturer.

**Toxicological data**
- See below for toxicological data on the substance.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC₅₀(4hr) inh, rat</th>
<th>LD₅₀ (Oral, rat)</th>
<th>LD₅₀ (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL-Alpha-Tocopheryl acetate</td>
<td>N/Av</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

**Other important toxicological hazards**
- None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
- The product is virtually insoluble in water and can be eliminated by mechanical separation and removal from suitable effluent treatment plants. Quantitative data on the ecological effect of this product are not available. No ecological problems are to be expected when the product is handled and used with due care and attention.

See the following tables for individual ingredient ecotoxicity data.

#### Ecotoxicity data:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Daphnia</th>
<th>Toxicity to Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL-Alpha-Tocopheryl acetate</td>
<td>7695-91-2</td>
<td>LC₅₀ / 96h N/Av</td>
<td>EC₅₀ / 48h N/Av</td>
<td>EC₅₀ / 96h or 72h N/Av</td>
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<tr>
<td></td>
<td></td>
<td>NOEC / 21 day N/Av</td>
<td>NOEC / 21 day N/Av</td>
<td>NOEC / 96h or 72h N/Av</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M Factor</td>
<td>M Factor</td>
<td>M Factor</td>
</tr>
</tbody>
</table>

**Persistence and degradability**
- Readily biodegradable.

**Bioaccumulation potential**
- This product has no known eco-toxicological effects.
SAFETY DATA SHEET

Components | Partition coefficient n-octanol/ater (log Kow) | Bioconcentration factor (BCF)
--- | --- | ---
Mobility in soil | Expected to be ultimately biodegradable |  
Other Adverse Environmental effects | None known. |  

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal: Dispose of in accordance with all local, state and federal regulations by incineration at an approved waste disposal facility. Small amounts of waste can be disposed together with industrial waste to approved landfill in accordance with local regulations. Empty drums and containers can be recycled or reprocessed if all product residues have been flushed out.

RCRA: It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14. TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing Group</th>
<th>Label</th>
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</thead>
<tbody>
<tr>
<td>TDG</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Additional information</td>
<td>None.</td>
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<tr>
<td>TDG</td>
<td>None.</td>
<td>Not regulated.</td>
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<td>Additional information</td>
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<tr>
<td>49CFR/DOT</td>
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<td>Not regulated.</td>
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<td>Additional information</td>
<td>None.</td>
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<tr>
<td>49CFR/DOT</td>
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<tr>
<td>Additional information</td>
<td>None.</td>
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<td></td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
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</tr>
<tr>
<td>Additional information</td>
<td>None.</td>
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<tr>
<td>IMDG</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
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<tr>
<td>Additional information</td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special precautions for user: None reported by the manufacturer.

Environmental hazards: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.
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SECTION 15 - REGULATORY INFORMATION

US Federal Information:
Components listed below are present on the following U.S. Federal chemical lists:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DL-Alfa-Tocopheryl acetate</td>
<td>7695-91-2</td>
<td>Yes</td>
<td>N/Ap</td>
<td>N/Av</td>
<td>No</td>
</tr>
</tbody>
</table>

Pharmaceutical intermediate or active. FDA exemption from TSCA Inventory.

US State Right to Know Laws:
The following chemicals are specifically listed by individual States:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>California Proposition 65</th>
<th>State &quot;Right to Know&quot; Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Listed</td>
<td>Type of Toxicity</td>
</tr>
<tr>
<td>DL-Alfa-Tocopheryl acetate</td>
<td>7695-91-2</td>
<td>No</td>
<td>N/Ap</td>
</tr>
</tbody>
</table>

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Canadian Information:
- Canadian Environmental Protection Act (CEPA): All ingredients listed appear on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
- Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI: None known.
- WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:
Components listed below are present on the following International Inventory list:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>European EINECs</th>
<th>Australia AICS</th>
<th>Philippines PICCS</th>
<th>Japan ENCS</th>
<th>Korea KECL/KECL</th>
<th>China IECSC</th>
<th>NewZealand IOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL-Alfa-Tocopheryl acetate</td>
<td>7695-91-2</td>
<td>231-710-0</td>
<td>Present</td>
<td>Present</td>
<td>(9)-487</td>
<td>KE-10751</td>
<td>Present</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

SECTION 16. OTHER INFORMATION

Legend:
- ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- DOT: Department of Transportation
SAFETY DATA SHEET

EC50: Effective Concentration 50%.
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IQC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TDL: Lethal Dose
TLD: Lethal Concentration
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2014.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2012 version.

Preparation Date (mm/dd/yyyy)
05/24/2015

Other special considerations for handling
None.

HMIS Rating
<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - Minimal</td>
<td>1 - Slight</td>
<td>0 - Chronic hazard</td>
</tr>
</tbody>
</table>

NFPA Rating
<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - Minimal</td>
<td>1 - Slight</td>
<td>0 - Chronic hazard</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Prepared for:
Essential Ingredients
2408 Tech Center Parkway Suite 200
Lawrenceville, GA 30043
Phone (770) 831-9188
www.essentialingredients.com

Prepared by:
ICC The Compliance Center Inc.
Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada)
http://www.thecompliancecenter.com

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END OF DOCUMENT