I. PRODUCT AND COMPANY IDENTIFICATION

Company: Natural Advantage, LLC
Address: 1050 Cypress Creek Road Oakdale, Louisiana 71463
Telephone: 318-215-1456
Fax: 318-335-1579
Product Name: cis-3-Hexenyl Acetate, Natural
Product Number: NA3171
Chemical Name: cis-3-Hexenyl Acetate

EMERGENCY 24 HOUR CONTACT: ChemTrec 1-800-424-9300 Contract # 219030
customerservice@natadv.com

II. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]
Flammable Liquids Category 3

NFPA Hazard Rating: Health: 0 Fire: 2 Reactivity: 0

II. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: cis-3-Hexenyl Acetate
Chemical Name: cis-3-Hexenyl Acetate
Synonyms: Verdual; Leaf Alcohol Acetate
Formula: C14H20O2
Molecular Wt.: 142.2 g/mol

III. FIRST AID MEASURES

Inhalation: Remove from the exposure to fresh air. Contact a physician as necessary. If breathing is irregular or has stopped, start resuscitation and administer oxygen if available.

Eye Contact: Flush immediately with clean water for at least 15 minutes. Contact a physician if irritation persists.

Skin Contact: Remove any contaminated clothing or shoes. Wash affected areas thoroughly with soap and water. If irritation persists, contact a physician.

Ingestion: Do NOT induce vomiting. Give water to dilute. Contact a physician immediately.

IV. FIRE-FIGHTING MEASURES

Flashpoint (Method Used):
- Lower Flammable Limit (% by Volume):
- Upper Flammable Limit (% by Volume):
Extinguishing Media:
- Water spray, Alcohol-resistant foam, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:
- Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.

V. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Eliminate all ignition sources. Ventilate area. Contain spill and recover free product. Report spill to appropriate authorities if required.

Waste Disposal Method: Place material into sealed containers and dispose of in accordance with current applicable laws and regulations.

VI. PRECAUTIONS FOR SAFE HANDLING AND USE

Precautions to be taken in handling and storing: Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use. Good manufacturing practices dictate that an eyewash fountain and/or safety shower should be available in the work area.

Other Precautions: None.

VII. CONTROL MEASURES

Occupational Exposure Limits: Contains no substances with occupational exposure limit values.
Respiratory Protection: None generally required. If desired use NIOSH approved respirator.
Ventilation: Local exhaust meeting ACGIH criteria as needed.
Protective Gloves: Use chemical resistant gloves.
Protective Eyewear: Use splash goggles or face shield when eye contact might occur.
Other Protective Clothing or Equipment: None required.

VIII. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Information Not Available
Vapor Pressure (mm Hg): Information Not Available
Vapor Density (AIR =1): >1.0
Solubility in Water: Insoluble
pH: Information Not Available
Flammability (solid, gas): Information Not Available
Upper/lower flammability or explosive limits: Information Not Available
Autoignition temperature: Information Not Available
Viscosity: Information Not Available
Appearance: Clear Liquid

Specific Gravity (H2O = 1): 0.897 - 0.903
Flash Point: 54° (135°F)
Melting Point: Information Not Available
Evaporation Rate: Information Not Available
Color: Colorless to Pale Yellow
Oxidizing properties: Information Not Available
Odor: Banana-Like
Partition coefficient: Information Not Available
Decomposition temperature: Information Not Available
Explosive properties: Information Not Available

NA3171
X. REACTIVITY DATA

- **Stability:** Chemically Stable under recommended storage conditions.
- **Conditions to Avoid:** Heat, Flames, and Sparks
- **Incompatibility with other Substance (Materials to Avoid):** Strong oxidizing agents
- **Hazardous Decomposition or Byproducts:** Carbon Oxides
- **Hazardous Polymerization:** No

XI. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>LD50-oral-rat-&gt;5,000 mg/kg</td>
</tr>
<tr>
<td>LD50-dermal-rabbit-&gt;5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>May be harmful</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>May be harmful</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Information Not Available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Information Not Available</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Information Not Available</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Information Not Available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>May be harmful</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>cis-3-Hexenyl Acetate is not listed as carcinogenic by IARC, ACGIH, NTP, or OSHA.</td>
</tr>
</tbody>
</table>

XII. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and Degradation</td>
<td>Information Not Available</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>Information Not Available</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>Information Not Available</td>
</tr>
</tbody>
</table>

XIII. DISPOSAL CONSIDERATIONS

- **Product:** Observe all federal, state, and local environmental regulations in disposing this material.
- **Contaminated packaging:** Dispose of as unused product.

XIV. TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>DOT (US)</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>UN Number: 3272 Esters, n.o.s. cis-3-Hexenyl Acetate</td>
<td>Class: 3 Marine pollutant: No</td>
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<tr>
<td></td>
<td></td>
<td>Packing Group: III Poison Inhalation Hazard: No</td>
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</tbody>
</table>

XV. REGULATORY INFORMATION

- **OSHA Hazards:** Flammable Liquid
- **US Federal:** TSCA: CAS# 3681-71-8 is listed on the TSCA Inventory
  California Prop. 65: This product does not contain any chemicals known to cause cancer, birth defects, or any other reproductive harm.
- **SARA 311/312:** Fire Hazard
  Regulation: Complies with EC 1272/2008.

XVI. OTHER INFORMATION

- **MSDS Creation Date:** 09/08/2011
- **MSDS Revision #:** 4
- **Revision Date:** 01/03/2017
- **Liability Statement:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Natural Advantage, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.