

**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-5-octenal 1% in Ethyl Acetate-USOC, Natural	Chemical Name:	cis-5-octenal (1%) in Ethyl Acetate (99%)
Product Number:	NA3749-1EtOAc-USOC		

<b>EMERGENCY 24 HOUR CONTACT: ChemTrec</b>	<b>1-800-424-9300 Contract # 219030</b>
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**II. HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture  
Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]  
Serious eye damage/eye irritation Category 2  
Flammable liquid Category 2  
Specific Target Organ systemic toxicity – Single exposure Category 3-NE

NFPA Hazard Rating:

Health: 3

Fire: 4

Reactivity: 0

Labeling according to Regulation (EC) No 1272/2008 [CLP]:

Pictogram:



**Signal word:** Danger  
**Hazard statement:**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.  
P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/ attention.  
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container to approved waste disposal plant, in accordance with local, state and federal regulations.

**III. COMPOSITION/INFORMATION ON INGREDIENTS**

Product Name:	cis-5-octenal 1% in Ethyl Acetate-USOC, Natural	Chemical Name:	cis-5-octenal (1%) in Ethyl Acetate (99%)
Synonyms:	cis-Oct-5-enal; (Z)-5-Octenal	CAS#:	41547-22-2 (1%); 141-78-6 (99%)
Formula:	C <sub>8</sub> H <sub>14</sub> O	EC#:	639-101-5 (1%)
Molecular Wt.:	126.2 g/mol	EINECS#:	205-500-4 (99%)

**IV. 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.

**V. FIRE-FIGHTING MEASURES**

Flashpoint (Method Used):	-4°C (24.8°F)(CC)
Lower Flammable Limit (% by Volume):	2.2 %
Upper Flammable Limit (% by Volume):	11.5 %
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.
Unusual Fire and Explosion Hazards:	None
NFPA Hazard Rating:	Health: 3                      Fire: 4                      Reactivity: 0

**VI. 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.

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**VII. 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.

**VIII. CONTROL MEASURES**

Occupational Exposure Limits:	Ethyl Acetate (CAS# 141-78-6) OSHA – 400ppm TWA; NIOSH – 400ppm TWA
Respiratory Protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
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.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point:	Information Not Available	Specific Gravity (H <sub>2</sub> O = 1):	0.8970 - 0.9070
Vapor Pressure (mm Hg):	Information Not Available	Flash Point:	-4°C (24.8°F)(CC)
Vapor Density (AIR =1):	>1.0	Melting Point:	Information Not Available
Solubility in Water:	Slightly	Evaporation Rate:	Information Not Available
pH:	Information Not Available	Color:	Colorless
Flammability (solid, gas):	Information Not Available	Oxidizing properties:	Information Not Available
Upper/lower flammability or explosive limits:	Information Not Available	Odor:	Watermelon, cucumber, waxy, honeydew, fruity, violet, juicy
Autoignition temperature:	Information Not Available	Partition coefficient:	Information Not Available
Viscosity:	Information Not Available	Decomposition temperature:	Information Not Available
Appearance:	Clear Liquid	Explosive properties:	Information Not Available

**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**

Acute toxicity: LD50 Oral - Rat - 5,620 mg/kg LC50 Inhalation - Mouse - 2 h - 45,000 mg/m3 LD50 Dermal - Rabbit - > 18,000 mg/kg		Skin corrosion/irritation:	May be harmful
Serious eye damage/eye irritation:	Mild irritation 24 h	Respiratory or skin sensitization:	May be harmful
Germ cell mutagenicity:	Information Not Available	Reproductive toxicity:	Information Not Available
Specific target organ toxicity (single exposure):	Information Not Available	Specific target organ toxicity (repeated exposure):	Information Not Available
Aspiration hazard:	May be harmful		
Carcinogenicity:	Components are not listed as carcinogenic by IARC, ACGIH, NTP, or OSHA.		

**XII. ECOLOGICAL INFORMATION**

Toxicity:	LC50 - Oncorhynchus mykiss (rainbow trout) - 350.00 - 600.00 mg/l - 96 h	Persistence and Degradation:	Result: 79 % - Readily biodegradable. (OECD Test Guideline 301D)
Bioaccumulative potential:	Bioaccumulation - 3 d Bio concentration factor (BCF): 30	Mobility in soil:	Information Not Available
PBT and vPvB assessment:	Information Not Available	Other adverse effects:	Information Not Available

**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**

DOT (US) Proper Shipping Name:	UN Number: 1173 Ethyl acetate	Class: 3 Marine pollutant: No	Packing Group: II Poison Inhalation Hazard: No
IMDG Proper Shipping Name:	UN Number: 1173 Ethyl acetate	Class: 3 Marine pollutant: No	Packing Group: II
IATA Proper Shipping Name:	UN Number: 1173 Ethyl acetate	Class: 3	Packing Group: II

**XV. REGULATORY INFORMATION**

OSHA Hazards	Flammable liquid; Irritant
US Federal	TSCA: CAS# 41547-22-2 and CAS# 141-78-6 are 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; Acute Health Hazard; Chronic Health Hazard
Regulation	Complies with EC 1272/2008.

**XVI. OTHER INFORMATION**

Creation Date:	11/19/2019
Revision #:	
Revision Date:	

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.

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