

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 Butyrate, Natural	Chemical Name:	cis-3-Hexen-1-yl-Butanoate
Product Number:	NA3402	EMERGENCY 24 HOUR CONTACT: ChemTrec 1-800-424-9300 Contract # 219030	

II. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

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

Skin irritation Category 3

NFPA Hazard Rating: Health: 1 Fire: 1 Reactivity: 0

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

Pictogram: None

Signal word: Warning
Hazard statement:
 H227 Combustible liquid
 H316 Causes mild skin irritation

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name:	cis-3-Hexenyl Butyrate, Natural	Chemical Name:	cis-3-Hexen-1-yl-Butanoate
Synonyms:	cis-Butyric acid, 3-hexenyl ester	CAS#:	16491-36-4
Formula:	C10H18O2	EINECS#:	240-553-7
Molecular Wt.:	170.25 g/mol		

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):	78.9°C (174°F) (CC)
Lower Flammable Limit (% by Volume):	Information Not Applicable
Upper Flammable Limit (% by Volume):	Information Not Applicable
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: 1 Fire: 1 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.

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:	Does not contain materials with occupational exposure limits.
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.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	192°C	Specific Gravity (H ₂ O = 1):	0.8600 - 0.8990
Vapor Pressure (mm Hg):	Information Not Available	Flash Point:	78.9°C (174°F) (CC)
Vapor Density (AIR =1):	> 1.0	Melting Point:	Information Not Available
Solubility in Water:	Insoluble	Evaporation Rate:	Information Not Available
pH:	Information Not Available	Color:	Colorless to pale yellow
Flammability (solid, gas):	Information Not Available	Oxidizing properties:	Information Not Available
Upper/lower flammability or explosive limits:	Information Not Available	Odor:	Green, fruity, buttery
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

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customerservice@natural-advantage.net

Stability:	Chemically Stable under recommended storage conditions.	Conditions to Avoid: Heat, flames, 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: Information Not Available			
Serious eye damage/eye irritation: Germ cell mutagenicity:	Mild irritation 24 h Information Not Available	Skin corrosion/irritation: Respiratory or skin sensitization: Reproductive toxicity:	May be harmful May be harmful 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:	cis-3-Hexenyl Butyrate is not listed as carcinogenic by IARC, ACGIH, NTP, or OSHA.		

XII. ECOLOGICAL INFORMATION

Toxicity:	Information Not Available	Persistence and Degradation:	Information Not Available
Bioaccumulative potential:	Information Not Available	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: Not Regulated Information Not Applicable	Class: Information Not Applicable Marine pollutant: No	Packing Group: Information Not Applicable Poison Inhalation Hazard: No
IMDG Proper Shipping Name:	UN Number: Not Regulated Information Not Applicable	Class: Information Not Applicable Marine pollutant: No	Packing Group: Information Not Applicable
IATA Proper Shipping Name:	UN Number: Not Regulated Information Not Applicable	Class: Information Not Applicable	Packing Group: Information Not Applicable

XV. REGULATORY INFORMATION

OSHA Hazards	Combustible liquid
US Federal	TSCA: CAS# 16491-36-4 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. Acute health hazard.
Regulation	Complies with 29 EC 1272/2008.

XVI. OTHER INFORMATION

MSDS Creation Date:	08/15/2010
MSDS Revision #:	4
Revision Date:	04/13/2017
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.