

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>Cis-3-Hexenyl Isovalerate, Natural</b>
Product Number	<b>0349800</b>
CAS-No.	<b>35154-45-1</b>

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992 - USA
Telephone	845-496-6065
Fax	845-496-6248 Fax

### 1.4 Emergency Telephone Number

1-800-535-5053  
International - 1-352-323-3500 collect

## Section 2: HAZARD(s) IDENTIFICATION

### 2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	Flammable Liquids (Category 3) H226 Acute aquatic toxicity (Category 2) H401 Chronic aquatic toxicity (Category 2) H411
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### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement  
Hazard Statement(s)

#### Warning

	H226	Flammable liquid and vapor
	H411	Toxic to aquatic life with long lasting effects
Precautionary Statement(s)	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
	P273	Avoid release into the environment
	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P303+P361+P353	IF ON SKIN: Wash with plenty of soap and water

	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire: use dry sand, dry chemical or alcohol resistant foam for extinction.
P391	Collect spillage
P403+P233	Store in a well ventilated place. Keep container tightly closed
P501	Dispose of contents/ container to an approved waste disposal plant

2.3 HNOC (Hazards not otherwise classified or not covered by GHS) None

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical characterization	Natural Product
Synonym	Cis-3-Hexenyl 3-methylbutanoate
Formula	C <sub>11</sub> H <sub>20</sub> O <sub>2</sub>
Molecular Weight	184.28 g/mol
CAS-No	35154-45-1
EC-No.	252-404-3

#### Hazardous Components

Component	Classification	Concentration
(Z)-Hex-3-enyl-isovalerate	Flammable Liquids (3) H226 Aquatic Acute (2) H401 Aquatic Chronic (2), H411	

### Section 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 as a precaution.
Ingestion:	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

4.2 Most important symptoms and effects both acute and delayed See section 2.2 and or section 11

4.3 Indication of any immediate medical attention and special treatment needed. No data available

## Section 5: FIREFIGHTING MEASURES

- |  |  |
|--|--|
| <b>5.1 Extinguishing Media</b><br>Suitable Extinguishing Media   | Use water spray, alcohol resistant foam, dry chemical or carbon dioxide  |
| <b>5.2 Special hazards arising from the substance or mixture</b> | Carbon oxides  |
| <b>5.3 Advice for fire fighters</b>                              | Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions |
| <b>5.4 Further information</b>                                   | Use water spray to cool unopened containers.   |

## Section 6: ACCIDENTIAL RELEASE MEASURES

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|--|--|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Evacuate personnel to safe areas. |
| <b>6.2 Environment precautions</b>   | Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.   |
| <b>6.3 Methods and materials for containment and clean up</b>                  | Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. Place in a suitable, closed container for disposal.   |
| <b>6.4 Specific end use(s)</b>   | Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.   |

## Section 7: HANDLING AND STORAGE

- |  |   |
|--|---|
| <b>7.1 Precautions for safe handling</b> | Avoid inhalation of vapor or mist. Keep away from sources of ignition-No Smoking. Take measures to prevent the buildup of electrostatic charge.               |
| <b>7.2 Conditions for Safe storage</b>   | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| <b>7.3 Specific End use(s)</b>           | Flavorings  |

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |                                  |  |
|----------------------------------|--|
| <b>8.1 Control parameters</b>    |  |
|                                  | Components no substance with workplace control parameters  |
| <b>8.2 Exposure Controls</b>     |  |
| Appropriate Engineering Controls | Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the day.  |
| Personal protective equipment    | <b>These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use</b> |

by our customers. They should not be construed as offering an approval for any specific use scenario.

Eye/face protection	Wear appropriate safety glasses with side shields and face shield. NIOSH tested and approved.
Skin protection	Wear chemically resistant, rubber gloves. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Impervious clothing protecting against chemicals, made of flame retardant antistatic material should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a back up 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 CN (EU).
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a	Appearance	Colorless liquid
b	Odor	Fresh green apple
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	No data available
f	Boiling Point	199°C
g	Flash Point	60°C
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	No data available
l	Vapor density	No data available
m	Relative density at 25°C	0.870-0.890
n	Solubility	Insoluble in water, soluble in alcohol, propylene glycol and fixed oils
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp.	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available

9.2 Other Safety Information No data available

## Section 10: STABILITY AND REACTIVITY

10.1	<b>Reactivity</b>	No data available
10.2	<b>Chemical Stability</b>	Stable under recommended storage conditions
10.3	<b>Possibility of Hazardous reactions</b>	No data available
10.4	<b>Conditions to avoid</b>	Heat, Flames and sparks.
10.5	<b>Incompatible materials</b>	Strong acids, Strong bases, strong oxidizing agents
10.6	<b>Hazardous decomposition products</b>	No data available
10.7	<b>Further Information</b>	No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

LD50-Oral-	No data available
LC50-Inhalation	No data available
LD50-Dermal-	No data available
Skin corrosion/irritation	Rabbit: Mild skin irritation 24 h
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available

#### Carcinogenicity

IARC	No component of this product, present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	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.
NTP	No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity	No data available
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Synergistic effect	No data available
RTECS:	NY1505000

## Section 12: ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	No data available
12.2	<b>Persistence and degradability</b>	No data available
12.3	<b>Bioaccumulative potential</b>	No data available

12.4	<b>Mobility in soil</b>	No data available
12.5	<b>Results of PBT and vPvB assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6	<b>Other adverse effects</b>	No data available

## Section 13: DISPOSAL CONSIDERATIONS

13.1	<b>Disposal methods</b>	
	Product:	According to local regulations
	Packaging	According to local regulations

## Section 14: TRANSPORT INFORMATION

<b>DOT (US)</b>	UN-Number: 3272	Class: 3	Packing Group: III
Proper shipping name:	Esters, n.o.s.		
Marine Pollutant:	No		
Poison Inhalation Hazard:	No		
<b>IMDG</b>	UN-Number: 3272	Class: 3	Packing Group: III EMS-No: F-E, S-D
Proper shipping name:	ESTERS, N.O.S. ((Z)-Hex-3-enyl Isovalerate)		
Marine Pollutant:	No		
<b>IATA</b>	UN-Number: 3272	Class: 3	Packing Group: III
Proper shipping name:	Esters, n.o.s. ((Z)-Hex-3-enyl Isovalerate)		

## Section 15: REGULATORY INFORMATION

Reach No.	A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage not require a registration or the registration is envisaged for a later registration deadline.		
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.		
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.		
SARA 311/312 Hazards	Fire Hazard		
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	(z)-Hex-3-enyl Isovalerate	CAS# 35154-45-1	Rev. Date:
New Jersey Right to Know components	z)-Hex-3-enyl Isovalerate	CAS# 35154-45-1	Rev. Date:
California Prop. 65 components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		

## Section 16: OTHER INFORMATION

<b>HMIS Rating</b>	
Health hazard	2

# Safety Data Sheet

Chronic Health Hazard  
Flammability 2  
Physical Hazard 0

## Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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