

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name:** Pineapple Natural  
**Robertet Product Code:** 00933823

**CAS No.** N/A

**Recommended use of the chemical and restrictions on use**

**Recommended use** Aromatic Ingredient (s). For Industrial Use Only.  
**Uses advised against** Do not ingest as such. Avoid eye contact.

**Details of the supplier of the safety data sheet**

Robertet, Inc.  
 400 International Drive  
 Mount Olive, NJ 07828 USA  
 TEL: 201-337-7100  
 E-mail: reginc@robertetusa.com

**Emergency telephone number**  
**Emergency Telephone Number**

Chemtrec 1-800-424-9300 (24 hrs)  
 Outside of the USA and Canada (703) 527-3887. Collect calls accepted

## 2. HAZARDS IDENTIFICATION

**OSHA Hazard Classification**

Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin Sensitization	Category 1B
Aspiration Toxicity	Category 1
Flammable liquids	Category 3

**Label elements**

**Signal Word**  
**Danger**

**Hazard Statements**

Causes Skin Irritation  
 Causes serious eye irritation  
 May cause an allergic skin reaction  
 May be fatal if swallowed and enters airways  
 Flammable liquid and vapor



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
If skin irritation or rash occurs: Get medical advice/attention  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do not induce vomiting  
In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None known

**Other Information**

May be harmful if swallowed  
Toxic to aquatic life with long lasting effects  
Toxic to aquatic life

**Interactions with Other Chemicals**

Not applicable

**Principle Routes of Exposure**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No	Weight %	GHS Classification
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (r)	5989-27-5	10% - 20%	Skin Irrit. 2 (H315) Aquatic Chronic 1 (H410) Skin Sens. 1B (H317) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Flam. Liq. 3 (H226)
Laevo Linalool	126-91-0	10% - 20%	Flam. Liq. 4 (H227) Skin Irrit. 2 (H315) Aquatic Acute 3 (H402) Eye Irrit. 2A (H319) Acute Tox. Oral 5 (H303) Skin Sens. 1B (H317)
Ethanol	64-17-5	10% - 20%	Eye Irrit. 2A (H319) Flam. Liq. 2 (H225)
Acetic acid, ethyl ester	141-78-6	5% - 10%	Eye Irrit. 2A (H319) Flam. Liq. 2 (H225) STOT SE 3 (H336)

Allyl caproate	123-68-2	5% - 10%	Acute Tox. Inhalation - vapour 3 (H331) Acute Tox. Oral 3 (H301) Aquatic Acute 1 (H400) Flam. Liq. 4 (H227) Acute Tox. Dermal 3 (H311) Aquatic Chronic 3 (H412)
2,6-octadienal, 3,7-dimethyl-	5392-40-5	1.0% - 5.0%	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Acute Tox. Dermal 5 (H313) Eye Irrit. 2A (H319) Aquatic Acute 2 (H401)
Geraniol	106-24-1	0.1% - 1.0%	Skin Sens. 1 (H317) Acute Tox. Oral 5 (H303) Eye Dam. 1 (H318) Aquatic Acute 3 (H402) Skin Irrit. 2 (H315)
2,6-octadien-1-ol,3,7-dimethyl acetate	105-87-3	0.1% - 1.0%	Skin Sens. 1B (H317) Aquatic Chronic 3 (H412) Skin Irrit. 2 (H315) Aquatic Acute 2 (H401)
Caryophyllene beta	87-44-5	0.1% - 1.0%	Skin Sens. 1B (H317) Asp. Tox. 1 (H304) Skin Corr. 3 (H316)
1,6-octadien-3-ol,3,7-dimethyl	78-70-6	0.1% - 1.0%	Skin Irrit. 2 (H315) Acute Tox. Oral 5 (H303) Skin Sens. 1B (H317) Eye Irrit. 2A (H319) Aquatic Acute 3 (H402) Flam. Liq. 4 (H227)
Pinene, alpha	80-56-8	0.1% - 1.0%	Asp. Tox. 1 (H304) Acute Tox. Oral 5 (H303) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)

#### 4. FIRST AID MEASURES

##### First Aid Measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water.

##### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Water spray. Use: Dry chemical. alcohol-resistant foam.

##### Unsuitable Extinguishing Media

Decomposition by contact with water may generate vapours which can be ignited by heat or open flame.

##### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Sensitivity to static discharge Yes.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental Precautions**

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Methods and material for containment and cleaning up**

**Methods for Clean-up** Pick up and transfer to properly labelled containers. Soak up with inert absorbent material. Dam up.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapours or spray mist. Use product only in closed system.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible Materials** Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Component	OSHA PEL (TWA)	ACGIH TLV (TWA)	ACGIH TLV (STEL)	California PEL (TWA)
Ethanol 64-17-5	1900 MGM3, 1000 PPM	-	1000 PPM	1900 MGM3, 1000 PPM
Acetic acid, ethyl ester 141-78-6	1400 MGM3, 400 PPM	400 PPM	-	1400 MGM3, 400 PPM
2,6-octadienal, 3,7-dimethyl- 5392-40-5	-	5 PPM Inhalable fraction and vapor.	-	-
Pinene, alpha 80-56-8	-	20 PPM	-	-

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Tight sealing safety goggles.

<b>Skin and body protection</b>	No special technical protective measures are necessary.
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>General Hygiene Considerations</b>	When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Yellow
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	Not Determined	None known
<b>Melting Point / Melting Range</b>	Not Determined	None known
<b>Boiling Point / Boiling Range (°C)</b>	>35	None known
<b>Flash Point:</b>	30 °C / 86 °F	CC (closed cup)
<b>Evaporation rate</b>	Not Determined	None known
<b>Flammability (solid, gas)</b>	Not Determined	None known
<b>Vapor Pressure (mm Hg @ 20°C):</b>	Not Determined	None known
<b>Vapor Density</b>	Not Determined	None known
<b>Relative density</b>	Not Determined	None known
<b>Specific Gravity @ 20/20 °C:</b>	0.8760-0.8960	RTM-101
<b>Water Solubility:</b>	Not Determined	None known
<b>Solubility in other solvents</b>	Not Determined	None known
<b>Partition coefficient: n-octanol/water</b>	Not Determined	None known
<b>Autoignition Temperature</b>	Not Determined	None known
<b>Decomposition temperature</b>	Not Determined	None known
<b>Decomposition temperature</b>	Not Determined	None known
<b>Viscosity</b>	Not Determined	None known

<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

### Other information

## 10. STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use. Keep away from oxidizing agents and strongly acid or alkaline materials.

### Chemical Stability

Stable under normal conditions. Hazardous polymerisation does not occur.

### Possibility of Hazardous Reactions

None under normal processing.

<b>Hazardous Polymerization</b>	Hazardous polymerisation does not occur.
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### Conditions to Avoid

Heating in air.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information** Product does not present an acute toxicity hazard based on known information

**Inhalation** No data available.

**Eye Contact** No data available.

**Skin Contact** No data available.

**Ingestion** No data available.

Component	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	-	-	Listed	-

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

**Oral LD50** 4,446.00 mg/kg

**Dermal LD50** >5000 mg/kg

**Vapor** 60.00 mg/L

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

None known.

**Persistence/Degradability**

No information available.

**Bioaccumulation/ Accumulation**

Does not bioaccumulate.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste Disposal Method** Dispose of in accordance with local regulations.

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

Robertet Product 00933823  
Code:

Product Name: Pineapple Natural

## 14. TRANSPORT INFORMATION

### DOT

UN/ID No	1169
Proper shipping name	Extracts, flavoring, liquid
Hazard Class	3
Packing Group	III

### IMDG/IMO

UN/ID No	1169
Proper shipping name	Extracts, aromatic, liquid
Hazard Class	3
Packing Group	III
EmS No.	F-E, S-D

### IATA/CAO

UN-No	1169
Proper shipping name	Extracts, aromatic, liquid
Hazard Class	3
Packing Group	III

## 15. REGULATORY INFORMATION

### USA

#### Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals

#### International Regulations

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

#### WHMIS Hazard Class

B2 Flammable liquid D2B Toxic materials



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## 16. OTHER INFORMATION

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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End of SDS