



This safety data sheet complies with the requirements of:  
 OSHA CFR Title 29 CFR 1910.1200

Version 1

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product identifier**  
**Product Code(s)** 637TTB, 637BEV  
**Product name** FRESH CUCUMBER LIME EXTRACT, NATURAL WONF

**UN/ID No** 1197

**Recommended use of the chemical and restrictions on use**  
**Recommended Use** No information available.  
**Uses advised against** No information available

**Manufacturer** Apex Flavors, Inc.  
 1371 Brass Mill Rd. Suite A  
 Belcamp, MD 21017  
 410-565-6600

**Emergency telephone**  
 Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

**2. HAZARDS IDENTIFICATION**

**Classification**


|                                   |             |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Skin Sensitization                | Category 1  |
| Carcinogenicity                   | Category 1A |
| Flammable liquids                 | Category 3  |

**GHS Label elements, including precautionary statements**

**Emergency Overview**

**Danger**

**Hazard Statements**  
 Causes serious eye irritation  
 May cause an allergic skin reaction  
 May cause cancer  
 Flammable liquid and vapor



**Appearance** liquid                      **Physical state** liquid                      **Aroma** No information available

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? 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

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

**Other information**

- Toxic to aquatic life with long lasting effects
- Toxic to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name | CAS-No    | Weight % | Trade Secret |
|---------------|-----------|----------|--------------|
| ETHYL ALCOHOL | 64-17-5   | 30-50%   | *            |
| LIMONENE      | 5989-27-5 | <1       | *            |
| PINENES       | 80-56-8   | <1       | *            |

**4. FIRST AID MEASURES**

**First aid measures for different exposure routes**

|   |  |
|---|--|
| <b>General advice</b>                     | Immediate medical attention is required. Show this material safety data sheet to the doctor in attendance.           |
| <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 off immediately with plenty of water.   |
| <b>Inhalation</b>                         | Move to fresh air.   |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water.   |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition.  |

**Most important symptoms/effects, acute and delayed**

**Main Symptoms** Hives.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** none.

**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** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.

**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 materials for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

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

**Storage Conditions** Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

**Incompatible products** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name            | ACGIH TLV      | OSHA PEL  | NIOSH IDLH                                   |
|--------------------------|----------------|---|--|
| ETHYL ALCOHOL<br>64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900<br>mg/m <sup>3</sup> | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 |

|                           |  |  |  |
|---------------------------|--|--|--|
|                           |  | (vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m <sup>3</sup>   | mg/m <sup>3</sup>  |
| ETHYL ACETATE<br>141-78-6 | TWA: 400 ppm                                     | TWA: 400 ppm TWA: 1400<br>mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 1400 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm TWA: 1400<br>mg/m <sup>3</sup>                                    |
| ACETIC ACID<br>64-19-7    | STEL: 15 ppm<br>TWA: 10 ppm                      | TWA: 10 ppm TWA: 25 mg/m <sup>3</sup><br>(vacated) TWA: 10 ppm (vacated)<br>TWA: 25 mg/m <sup>3</sup>          | IDLH: 50 ppm<br>TWA: 10 ppm TWA: 25 mg/m <sup>3</sup><br>STEL: 15 ppm STEL: 37 mg/m <sup>3</sup> |
| PINENES<br>80-56-8        | TWA: 20 ppm                                      | -  |  |
| CITRAL<br>5392-40-5       | TWA: 5 ppm inhalable fraction<br>and vapor<br>S* | -  |  |

NIOSH IDLH: *Immediately Dangerous to Life or Health*

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Exposure controls**

**Engineering Controls**

Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection**

If splashes are likely to occur, wear:.

**Skin and body protection**

Chemical resistant apron.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection must 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.

**General Hygiene Considerations**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | liquid                   |
| <b>Appearance</b>     | liquid                   |
| <b>Aroma</b>          | No information available |
| <b>Color</b>          | No information available |

| <u>Property</u>                        | <u>Values</u>            | <u>Method</u>            |
|--|--------------------------|--------------------------|
| pH                                     |                          | No information available |
| Melting/freezing point                 |                          | FCC Method               |
| Boiling point/boiling range            |                          | FCC Method               |
| Flash Point                            | 26 °C / 78 °F            | Closed cup               |
| Evaporation rate                       | No information available | No information available |
| Flammability (solid, gas)              | No information available | No information available |
| Flammability Limits in Air             |                          | No information available |
| Upper flammability limit               | No information available |                          |
| lower flammability limit               | No information available |                          |
| Vapor pressure mm Hg 20°C              |                          | No information available |
| Vapor density                          |                          | No information available |
| Specific Gravity @ 25C                 | 0.9250 - 0.9450          | FCC Method               |
| Specific Gravity @ 20C                 | 0.9280 - 0.9480          | FCC Method               |
| Refractive Index @ 20C                 | 1.3798 - 1.3998          | FCC Method               |
| Water solubility                       | Practically insoluble    |                          |
| Solubility in other solvents           |                          | No information available |
| Partition coefficient: n-octanol/water |                          | No information available |
| Autoignition temperature               | No information available | No information available |
| Decomposition temperature              |                          | No information available |
| Viscosity, kinematic                   | No information available | No information available |
| Viscosity, dynamic                     | No information available |                          |
| Explosive properties                   | No information available |                          |
| Oxidizing Properties                   | No information available |                          |

### Other information

|                           |                          |
|---------------------------|--------------------------|
| <b>Softening point</b>    | No information available |
| <b>Molecular Weight</b>   | No information available |
| <b>VOC Content(%)</b>     | No information available |
| <b>Density VALUE</b>      | No information available |
| <b>Bulk Density VALUE</b> | No information available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Heat, flames and sparks.

### Incompatible Materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known information |
| <b>Inhalation</b>          | There is no data available for this product.                                 |
| <b>Eye contact</b>         | There is no data available for this product.                                 |
| <b>Skin contact</b>        | There is no data available for this product.                                 |
| <b>Ingestion</b>           | There is no data available for this product.                                 |

| Chemical Name               | Oral LD50           | Dermal LD50            | LC50 Inhalation        |
|-----------------------------|---------------------|------------------------|------------------------|
| PROPYLENE GLYCOL<br>57-55-6 | 20000 mg/kg ( Rat ) | 20800 mg/kg ( Rabbit ) | -                      |
| ETHYL ALCOHOL<br>64-17-5    | 7060 mg/kg ( Rat )  | -                      | 124.7 mg/L ( Rat ) 4 h |
| PINENES<br>80-56-8          | 2100 mg/kg ( Rat )  | 5000 mg/kg ( Rat )     | -                      |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ Cell Mutagenicity** No information available.  
**Carcinogenicity** This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

| Chemical Name            | ACGIH | IARC    | NTP   | OSHA |
|--------------------------|-------|---------|-------|------|
| ETHYL ALCOHOL<br>64-17-5 | A3    | Group 1 | Known | X    |
| LIMONENE<br>5989-27-5    |       | Group 3 |       |      |

ACGIH (American Conference of Governmental Industrial Hygienists)  
A3 - *Animal Carcinogen*  
IARC (International Agency for Research on Cancer)  
Group 1 - *Carcinogenic to Humans*  
Group 3 - *Not Classifiable as to Carcinogenicity in Humans*  
NTP (National Toxicology Program)  
Known - *Known Carcinogen*  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
X - *Present*

**Reproductive toxicity** No information available.  
**Specific target organ systemic toxicity (single exposure)** No information available.  
**Specific target organ systemic toxicity (repeated exposure)** No information available.  
**Chronic toxicity** May cause adverse liver effects. Contains a known or suspected reproductive toxin.  
**Target Organ Effects** Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system, Skin.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

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

. mg/kg mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects

4.46957% of the mixture consists of components(s) of unknown hazards to the aquatic environment

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

| Chemical Name            | log Pow |
|--------------------------|---------|
| ETHYL ALCOHOL<br>64-17-5 | -0.32   |
| PINENES<br>80-56-8       | 4.1     |

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

|                               |  |
|-------------------------------|--|
| <b>Waste Disposal Methods</b> | It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. |
| <b>Contaminated packaging</b> | Do not reuse container.  |
| <b>US EPA Waste Number</b>    | D001 U001 U203 U112  |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name            | California Hazardous Waste Status |
|--------------------------|-----------------------------------|
| ETHYL ALCOHOL<br>64-17-5 | Toxic Ignitable                   |
| LIMONENE<br>5989-27-5    | Toxic                             |

## 14. TRANSPORT INFORMATION

### DOT/ADR

|                             |                              |
|-----------------------------|------------------------------|
| <b>UN/ID No</b>             | 1197                         |
| <b>Proper shipping name</b> | EXTRACTS, FLAVOURING, LIQUID |
| <b>Hazard class</b>         | 3                            |
| <b>Packing Group</b>        | III                          |
| <b>ERG Code</b>             | 127                          |

### ICAO/IATA

|                 |      |
|-----------------|------|
| <b>UN/ID No</b> | 1197 |
|-----------------|------|





This product contains the following Proposition 65 chemicals:

| Chemical Name           | California Prop. 65 |
|-------------------------|---------------------|
| ETHYL ALCOHOL - 64-17-5 | Carcinogen          |

**U.S. State Right-to-Know Regulations**

| Chemical Name               | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| PROPYLENE GLYCOL<br>57-55-6 | X          |               | X            |
| ETHYL ALCOHOL<br>64-17-5    | X          | X             | X            |
| ETHYL ACETATE<br>141-78-6   | X          | X             | X            |
| PINENES<br>80-56-8          | X          | X             | X            |
| P-CYMENE<br>99-87-6         |            | X             | X            |

**U.S. EPA Label information**

**16. OTHER INFORMATION**

|             |                 |                |                   |                                 |
|-------------|-----------------|----------------|-------------------|---------------------------------|
| <b>NFPA</b> | Health Hazard 2 | Flammability 3 | Instability 0     | Physical and chemical hazards * |
| <b>HMIS</b> | Health Hazard 2 | Flammability 3 | Physical Hazard 0 | Personal protection B           |

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Revision Note No information available  
Revision# 1

**WARNING/DISCLAIMER:**

The ingredients/flavors provided by Trilogy have not been tested, nor have they been deemed safe, for inhalation or use in electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes or other similar devices (collectively "E-Cigarettes"). In supplying ingredients/flavors, Trilogy instructs, and by receiving such ingredients/flavors recipient confirms, that the ingredients/flavors will not be used in connection with the manufacture and distribution of E-Cigarettes or any component thereof.

**Disclaimer**

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