



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)** 687BEV  
**Product name** SWEET LIME EXTRACT, NATURAL

**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 2  |

**GHS Label elements, including precautionary statements**

**Emergency Overview**

**Danger**

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

**Appearance** liquid                      **Physical state** liquid                      **Aroma** characteristic of lime

**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 ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

#### Precautionary Statements - Storage

Store locked up

#### 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   | 50-90%   | *            |
| LIMONENE      | 5989-27-5 | <1       | *            |
| PINENES       | 80-56-8   | <1       | *            |

### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.<br>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 drink afterwards plenty of water.  |

#### 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** none.**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** Ensure adequate ventilation.

**Environmental precautions**

**Environmental precautions** 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** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**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 TWA: 1900 mg/m <sup>3</sup><br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m <sup>3</sup> | IDLH: 3300 ppm<br>TWA: 1000 ppm TWA: 1900 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**

|                                 |   |
|---------------------------------|---|
| <b>Eye/face protection</b>      | If splashes are likely to occur, wear:.   |
| <b>Skin and body protection</b> | Chemical resistant apron.   |
| <b>Respiratory protection</b>   | 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** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Physical and chemical properties**

|                       |                        |
|-----------------------|------------------------|
| <b>Physical state</b> | liquid                 |
| <b>Appearance</b>     | liquid                 |
| <b>Aroma</b>          | characteristic of lime |
| <b>Color</b>          | colorless              |

| <b><u>Property</u></b>                        | <b><u>Values</u></b>     | <b><u>Method</u></b>     |
|---|--------------------------|--------------------------|
| <b>pH</b>                                     |                          | No information available |
| <b>Melting/freezing point</b>                 |                          | FCC Method               |
| <b>Boiling point/boiling range</b>            |                          | FCC Method               |
| <b>Flash Point</b>                            | 19 °C / 67 °F            | Closed cup               |
| <b>Evaporation rate</b>                       | No information available | No information available |
| <b>Flammability (solid, gas)</b>              | No information available | No information available |
| <b>Flammability Limits in Air</b>             |                          | No information available |
| <b>Upper flammability limit</b>               | No information available |                          |
| <b>lower flammability limit</b>               | No information available |                          |
| <b>Vapor pressure mm Hg 20°C</b>              |                          | No information available |
| <b>Vapor density</b>                          |                          | No information available |
| <b>Specific Gravity @ 25C</b>                 | 0.8422 0.8722            | FCC Method               |
| <b>Specific Gravity @ 20C</b>                 | 0.8452 0.8752            | FCC Method               |
| <b>Refractive Index</b>                       | 1.3510 1.3810            | FCC Method               |
| <b>Water solubility</b>                       | Soluble in water         |                          |
| <b>Solubility in other solvents</b>           |                          | No information available |
| <b>Partition coefficient: n-octanol/water</b> |                          | No information available |
| <b>Autoignition temperature</b>               | No information available | No information available |
| <b>Decomposition temperature</b>              |                          | No information available |
| <b>Viscosity, kinematic</b>                   | No information available | No information available |
| <b>Viscosity, dynamic</b>                     | No information available |                          |
| <b>Explosive properties</b>                   | No information available |                          |
| <b>Oxidizing Properties</b>                   | 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**

Extremes of temperature and direct sunlight.

**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**

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

**Inhalation** There is no data available for this product.

**Eye contact** There is no data available for this product.

**Skin contact** There is no data available for this product.

**Ingestion** There is no data available for this product.

| Chemical Name            | Oral LD50          | Dermal LD50        | LC50 Inhalation        |
|--------------------------|--------------------|--------------------|------------------------|
| 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*

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

18.6732% of the mixture consists of component(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   |

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**

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

**ICAO/IATA**

|                      |                              |
|----------------------|------------------------------|
| UN/ID No             | 1197                         |
| Proper shipping name | EXTRACTS, FLAVOURING, LIQUID |
| Hazard class         | 3                            |
| Packing Group        | II                           |

**IMDG / IMO**

|                      |                              |
|----------------------|------------------------------|
| UN/ID No             | 1197                         |
| Proper shipping name | EXTRACTS, FLAVOURING, LIQUID |
| Hazard class         | 3                            |
| Packing Group        | II                           |

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**International Inventories**

|               |          |
|---------------|----------|
| TSCA          | Complies |
| DSL/NDSL      | Complies |
| EINECS/ELINCS | Complies |
| ENCS          | Complies |
| IECSC         | Complies |
| KECL          | Complies |
| PICCS         | Complies |
| AICS          | Complies |

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**U.S. 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.

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | no  |
| Chronic Health Hazard             | no  |
| Fire Hazard                       | Yes |
| Sudden Release of Pressure Hazard | no  |
| Reactive Hazard                   | no  |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

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 |
|--------------------------|------------|---------------|--------------|
| ETHYL ALCOHOL<br>64-17-5 | 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 4 | Instability 0     | Physical and chemical hazards * |
| <b>HMIS</b> | Health Hazard 2 | Flammability 4 | Physical Hazard 0 | Personal protection B           |

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**Disclaimer**

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