





This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 09-Jul-2019

Version 1.01

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

### 1.1. Product identifier

Product Code(s)	815BEV
Product name	GUAJILLO LIME EXTRACT, NATURAL

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

- **Recommended Use** Ingredient for further processing
- Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

Manufacturer	Apex Flavors, Inc. 1371 Brass Mill Rd.
	Suite A
	Belcamp, MD 21017
	(410) 565-6600
For further information, p	lease contact:

E-mail Address cpisano@apexflavors.com 1.4. Emergency telephone number

**Emergency telephone** 

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

### Section 2: HAZARDS IDENTIFICATION

# **2.1. Classification of the substance or mixture**

REGULATION (EC) NO 1272/2008	
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 1A - (H350)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)



### Signal Word

Danger

### **Hazard Statements**

H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H350 - May cause cancer
H412 - Harmful to aquatic life with long lasting effects
H226 - Flammable liquid and vapor EUH208 - May produce an allergic reaction

### Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear eye protection/ face protection

P321 - Specific treatment (see .? on this label)

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P370 + P378 - In case of fire: Use .? to extinguish

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P273 - Avoid release to the environment

### 2.3. Other information

No information available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
ETHYL ALCOHOL	200-578-6	64-17-5	50-90%	Flam. Liq. 2 (H225) Eye Irrit. 1 (H319)	No data available
LIMONENE	227-813-5	5989-27-5	1-5%	Aquatic Acute 1 (H400) Skin Sens. 1 (H317) Skin Irrit. 1 (H315) Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226)	No data available
PINENES	201-291-9	80-56-8	<1%	Aquatic Acute 1 (H400) Skin Sens. 1 (H317) Skin Irrit. 1 (H315) Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Acute Tox. 5 (H303) Flam. Liq. 3 (H226)	No data available
P-CYMENE	202-796-7	99-87-6	<1%	Aquatic Acute 2 (H401) Skin Irrit. 3 (H316) Aquatic Chronic 2 (H411) Asp. Tox. 1 (H304) Acute Tox. 5 (H303) Flam. Liq. 3 (H226)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

### Full text of H- and EUH-phrases: see section 16

### Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General advice** 

Immediate medical attention is required. Show this material safety data sheet to the doctor

	in attendance.	
Inhalation	Move to fresh air. If symptoms persist, call a physician.	
Skin contact	Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.	
Ingestion	Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth.	
Self-protection of the first aider	Remove all sources of ignition.	
4.2. Most important symptoms and	and effects, both acute and delayed	
Main Symptoms	No information available.	
4.3. Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons.	

### Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

### Suitable Extinguishing Media

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

#### Unsuitable extinguishing media

No information available

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors In the event of fire and/or explosion do not breathe fumes May cause sensitization in susceptible persons

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

### Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.

#### For emergency responders

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### 6.3. Methods and material 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. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.

### 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

### Section 7: HANDLING AND STORAGE

### 7.1. 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.

#### **General Hygiene Considerations**

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

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

#### Incompatible products

None known based on information supplied.

7.3 Specific end use(s)

#### Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
ETHYL ALCOHOL	-	STEL: 3000 ppm	VME: 1000 ppm VME:	VLA-ED: 1000 ppm	-
64-17-5		STEL: 5760 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>	VLA-ED: 1910 mg/m <sup>3</sup>	
		TWA: 1000 ppm TWA:	VLCT: 5000 ppm		
		1920 mg/m <sup>3</sup>	VLCT: 9500 mg/m <sup>3</sup>		
PINENES	-	-	-	VLA-ED: 20 ppm	-
80-56-8				VLA-ED: 113 mg/m <sup>3</sup>	
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
ETHYL ALCOHOL	-	TWA: 1000 ppm	Skin	TWA: 1000 ppm TWA:	TWA: 1000 ppm TWA:
64-17-5			STEL: 1900 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>
			TWA: 260 mg/m <sup>3</sup>	STEL: 1300 ppm	
				STEL: 2500 mg/m <sup>3</sup>	
LIMONENE	-	-	-	TWA: 25 ppm TWA:	-
5989-27-5				140 mg/m <sup>3</sup>	
				STEL: 50 ppm STEL:	
				280 mg/m <sup>3</sup>	
PINENES	-	TWA: 20 ppm	-	-	-
80-56-8					
P-CYMENE	-	-	-	-	TWA: 25 ppm TWA:
99-87-6					135 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
ETHYL ALCOHOL	STEL 2000 ppm STEL		NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA:	TWA: 1000 ppm TWA:
64-17-5	3800 mg/m <sup>3</sup>	STEL: 1920 mg/m <sup>3</sup>		950 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>
	MAK: 1000 ppm MAK:	MAK: 500 ppm MAK:		STEL: 625 ppm STEL:	

	1900 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>		1187.5 mg/m <sup>3</sup>	
LIMONENE	-	STEL: 40 ppm STEL:	-	TWA: 25 ppm TWA:	-
5989-27-5		220 mg/m <sup>3</sup>		140 mg/m <sup>3</sup>	
		MAK: 20 ppm MAK:		STEL: 37.5 ppm	
		110 mg/m <sup>3</sup>		STEL: 175 mg/m <sup>3</sup>	
PINENES	-	-	-	TWA: 25 ppm TWA:	-
80-56-8				140 mg/m <sup>3</sup>	
				Skin	
				STEL: 37.5 ppm	
				STEL: 175 mg/m <sup>3</sup>	

**Derived No Effect Level (DNEL)** 

No information available.

Predicted No Effect Concentration No information available. (PNEC)

8.2. Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Personal protective equipment Eye/face protection Tightly fitting safety goggles. Antistatic boots. Wear fire/ flame resistant/ retardant clothing. Impervious gloves. Skin and body protection Respiratory protection NIOSH/MSHA approved respiratory protection is required to be worn.

Environmental Exposure Controls Do not allow material to contaminate ground water system.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state Appearance Aroma Color	liquid clear sweet Smoky Spicy earthy astringent yellow	lime
<u>Property</u> pH Melting/freezing point Boiling point/boiling range Flash Point Evaporation rate Flammability (solid, gas) Flammability Limits in Air	<u>Values</u> 24 °C / 76 °F	• Method No information available No information available FCC Method Closed cup FCC Method No information available
Flammability Limits in Air Upper flammability limit Iower flammability limit Vapor pressure mm Hg 20°C Vapor density Relative density Specific Gravity @ 25C Specific Gravity @ 20C Refractive Index Water solubility Solubility in other solvents Partition coefficient: n-octanol/wate Autoignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidizing Properties	0.8913 - 0.9213 0.8943 - 0.9243 1.3496 - 1.3796 <b>Pr</b> No information available No information available	No information available No information available No information available No information available No information available FCC Method FCC Method FCC Method No information available No information available No information available No information available No information available No information available

### 9.2. Other information

Softening point Molecular Weight VOC Content(%) Density VALUE Bulk Density VALUE No information available No information available No information available No information available No information available

### Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

Explosion data Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

### 10.3. Possibility of hazardous reactions

### Hazardous Reactions

None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None under normal use conditions.

### Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

### Acute toxicity

#### Product Information

Product does not present an acute toxicity hazard based on known or supplied information. There is no data available for this product. Inhalation There is no data available for this product. Eve contact There is no data available for this product. Skin contact Ingestion There is no data available for this product. The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral) 6,977.00 mg/kg ATEmix (dermal) 3,231.00 mg/kg 66,550.75 mg/l ATEmix (inhalation-dust/mist) Unknown Acute Toxicity 99.68594441% of the mixture consists of ingredient(s) of unknown toxicity. 38.70891441 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

97.04979441 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

99.68594441 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas). 99.68594441 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor). 41.34506441 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

### Oral LD50

Skin corrosion/irritation	No information available.
Eye damage/irritation	No information available.
Sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	No information available.
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.
Target Organ Effects	Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system, Skin.
Aspiration hazard	No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

### Ecotoxicity

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

38.70891% of the mixture consis			1
Chemical Name	Toxicity to algae	Toxicity to fish	I Toxicity to d

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
ETHYL ALCOHOL	-	12.0 - 16.0: 96 h Oncorhynchus	9268 - 14221: 48 h Daphnia magna
		mykiss mL/L LC50 static 100: 96 h	mg/L LC50 10800: 24 h Daphnia
		Pimephales promelas mg/L LC50	magna mg/L EC50 2: 48 h Daphnia
		static 13400 - 15100: 96 h	magna mg/L EC50 Static
		Pimephales promelas mg/L LC50	
		flow-through	
LIMONENE	-	0.619-0.796: 96 h Pimephales	-
		promelas mg/L LC50 flow-through	
		35: 96 h Oncorhynchus mykiss	
		mg/L LC50	
PINENES	-	0.28: 96 h Pimephales promelas	41: 48 h Daphnia magna mg/L LC50
		mg/L LC50 static	

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

Chemical Name	log Pow
ETHYL ALCOHOL	-0.32
PINENES	4.1
P-CYMENE	4.1

### 12.4. Mobility in soil

### Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available

### Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations.		
Contaminated packaging	Empty remaining contents.		
Other Information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.		

### Section 14: TRANSPORT INFORMATION

IMDG / IMO 14.1 UN/ID No 14.2 Proper shipping name 14.3 Hazard class 14.4 Packing Group	1197 EXTRACTS, FLAVOURING, LIQUID 3 III
DOT/ADR/RID 14.1 UN/ID No 14.2 Proper shipping name 14.3 Hazard class 14.4 Packing Group	1197 EXTRACTS, FLAVOURING, LIQUID 3 III
ICAO/IATA 14.1 UN/ID No 14.2 Proper shipping name 14.3 Hazard class 14.4 Packing Group 14.5 Environmental hazard 14.6 Special Provisions	1197 EXTRACTS, FLAVOURING, LIQUID 3 III Not applicable None

### Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

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

#### 15.2. Chemical safety assessment

No information available

### Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of R-phrases referred to under sections 2 and 3

R10 - Flammable

R43 - May cause sensitization by skin contact

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### Full text of H-Statements referred to under section 3

H400 - Very toxic to aquatic life

H317 - May cause an allergic skin reaction H315 - Causes skin irritation

H304 - May	<sup>i</sup> be fatal if	swallowed	and	enters	airways

- H410 Very toxic to aquatic life with long lasting effects
- H226 Flammable liquid and vapor
- H225 Highly flammable liquid and vapor
- H319 Causes serious eye irritation
- H303 May be harmful if swallowed
- H401 Toxic to aquatic life
- H316 Causes mild skin irritation
- H411 Toxic to aquatic life with long lasting effects

### Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL FTWA:Time weighted averageCeiling:Maximum limit value:		erage	DTECTION STEL: *	Short term exposure limit Skin designation
<b>Revision Date</b>		09-Jul-2019		
Reason for revision	on:	Not applicable.		

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

WARNING/DISCLAIMER: Apex Flavors, Inc.'s products are sold exclusively for use in food and drink for human consumption. These products have not been tested, nor have they been deemed safe, for inhalation or use in electronic smoking devices, electronic nicotine delivery systems, and electronic cigarettes or similar devices (collectively "E-Cigarettes"). In supplying this product(s), Apex Flavors, Inc. instructs, and purchasing recipient confirms, that this product(s) will not be used in connection with the manufacture and distribution of E-Cigarettes or any component thereof. Recipients of our products that use them outside of their intended use of food or drink do so at their own risk and without warranty, either expressed or implied, from Apex Flavors, Inc. or its suppliers. The user assumes all liability for loss, injury, damage, or expense resulting from such uses.