# APEX FLAVORS, INC.

# SAFETY DATA SHEET.



Version 1

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

Product identifier

Product Code(s) 470, 470TTB, 470BEV, 470PGFT **Product name** LEMON LIME EXTRACT, NATURAL

**UN/ID No** 

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

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 clear Physical state liquid Odor typical of lemon and 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

- Causes mild skin irritation
- 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	1-5%	*
PINENES	80-56-8	1-5%	*
CITRAL	5392-40-5	<1	*

# 4. FIRST AID MEASURES

### First aid measures for different exposure routes

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

in attendance.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

**Skin contact** Wash off immediately with plenty of water. Wash off immediately with soap and plenty of

water.

**Inhalation** Move to fresh air. 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.

Most important symptoms/effects, acute and delayed

Main Symptoms Hives.

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

**Note to physicians** May cause sensitization in susceptible persons.

### 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

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

#### Unsuitable extinguishing media

Decomposition by contact with water may generate vapors 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. In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons.

#### **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. Use personal protective equipment.

Environmental precautions

**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.

### 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. Dam up. Soak up with inert absorbent

material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert

absorbent material.

# 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. Keep

containers tightly closed in a cool, 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 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
PINENES 80-56-8	TWA: 20 ppm	-	
CITRAL 5392-40-5	TWA: 5 ppm inhalable fraction and vapor S*	-	
NERAL 106-26-3	TWA: 5 ppm inhalable fraction and vapor 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** Tightly fitting safety goggles.

**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

Physical state liquid Appearance clear

Odor typical of lemon and lime
Color Pale yellow to green yellow

<u>Property</u> <u>Values</u> <u>Method</u>

pH No information available

Melting/freezing pointFCC MethodBoiling point/boiling rangeFCC MethodFlash Point17 °C / 63 °FClosed cup

Evaporation rate

No information available

Flammability (solid, gas)

No information available

Upper flammability limit

No information available

lower flammability limit No information available

Vapor pressure mm Hg 20°CNo information availableVapor densityNo information available

 Specific Gravity @ 25C
 0.86610 - 0.88610
 FCC Method

 Specific Gravity @ 20C
 0.86910 - 0.88910
 FCC Method

 Refractive Index
 1.356 - 1.376
 FCC Method

Refractive Index 1.356 - 1.376 FCC Method
Water solubility Water Soluble
Solubility in other solvents No information available

Partition coefficient: n-octanol/water

Autoignition temperature

No information available

No information available

No information available

Autoignition temperatureNo information availableNo information availableDecomposition temperatureNo information availableViscosity, kinematicNo information availableNo information available

Viscosity, kinematic
Viscosity, dynamic
Explosive properties
Oxidizing Properties
No information available
No information available
No information available

Other information

Softening point
Molecular Weight
VOC Content(%)
Density VALUE
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.

#### 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	A3	Group 1	Known	X
64-17-5		·		
LIMONENE		Group 3		
5989-27-5		·		

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 Specific target organ systemic toxicity (single exposure) Specific target organ systemic No information available. No information available.

No information available.

toxicity (repeated exposure) **Chronic toxicity** 

No information available.

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure. 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** 

# 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

Revision Date 05-Jul-2018

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

13.68698% 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	-0.32
64-17-5	
PINENES	4.1
80-56-8	
CITRAL	2.76
5392-40-5	

#### Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

#### **Waste treatment**

Waste Disposal Methods Dispose of in accordance with local regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number 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	Toxic Ignitable
64-17-5	
LIMONENE	Toxic
5989-27-5	

# 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 ||

IMDG / IMO

**UN/ID No** 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class
Packing Group

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL -

PICCS Complies

AICS -

# 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

#### <u>SARA 313</u>

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 Yes
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

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

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

	Chemical Name	New Jersey	Massachusetts	Pennsylvania
Г	ETHYL ALCOHOL	X	X	X
	64-17-5			
Г	PINENES	X	X	X
	80-56-8			

#### U.S. EPA Label information

16. OTHER INFORMATION			

NFPA Health Hazard 2 Flammability 4 Instability 0 Physical and chemical hazards \*

**HMIS** Health Hazard 2 Flammability 4 Physical Hazard 0 Personal protection B

Revision Date 05-Jul-2018

Revision Note No information available

Revision# 1

#### 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.

#### **Disclaimer**

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