## APEX FLAVORS, INC.

## SAFETY DATA SHEET.



Version 1

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

Product identifier

Product Code(s) 456TTB

Product name KEY LIME PIE TYPE, NATURAL & ARTIFICIAL

(CONTAINS < 0.10% ARTIFICIAL TOP NOTE)

**UN/ID No** 1197

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

**Manufacturer** Apex Flavors, Inc.

1361 Brass Mill Rd.

Suite E

Belcamp, MD 21017 (410) 565-6600

**Emergency telephone** 

Chemtrec: 1-800-424-9300 for US/ Outside US Chemtel 813-248-0585

## 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





Appearance clear Physical state liquid Odor characteristic of lime bakery notes

**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
- · Harmful 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	90-100%	*
LIMONENE	5989-27-5	1-5%	*
PINENES	80-56-8	<1	*
CITRAL	5392-40-5	<1	*

## 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

**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 for at least 15 minutes. If skin irritation persists,

call a physician. 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**Use personal protective equipment.

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

**Environmental precautions** 

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. 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**Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

After cleaning, flush away traces with water. Prevent product from entering drains.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep container tightly closed. 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	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900	IDLH: 3300 ppm
64-17-5		mg/m³	TWA: 1000 ppm TWA: 1900
		(vacated) TWA: 1000 ppm	mg/m³
		(vacated) TWA: 1900 mg/m <sup>3</sup>	-
PINENES	TWA: 20 ppm	-	

80-56-8			
CITRAL 5392-40-5	TWA: 5 ppm inhalable fraction and vapor S*	-	
NERAL 106-26-3	TWA: 5 ppm inhalable fraction and vapor S*	-	
ETHYL ACETATE 141-78-6	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m³ (vacated) TWA: 400 ppm (vacated) TWA: 1400 mg/m³	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m³
METHYL N-AMYL KETONE FCC (2-Heptanone) 110-43-0	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 465 mg/m³	IDLH: 800 ppm TWA: 100 ppm TWA: 465 mg/m <sup>3</sup>

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 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.

**General Hygiene Considerations** When using, do not eat, drink or smoke. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Physical and chemical properties**

Physical state liquid Appearance clear

Odor characteristic of lime bakery notes

Color colorless to yellow

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

pH No information available

Melting/freezing pointFCC MethodBoiling point/boiling rangeFCC Method

Flash Point 18 °C / 65 °F Closed cup
Evaporation rate No information available No information available

Flammability (solid, gas)

No information available

No information available

No information available

No information available

Upper flammability limit No information available

Iower flammability limit
Vapor pressure mm Hq 20°C

No information available

Vapor pressure mm Hg 20°CNo information availableVapor densityNo information availableSpecific Gravity @ 25CFCC Method

0.8088 - 0.8388

Specific Gravity @ 20C0.8118 - 0.8418FCC MethodRefractive Index1.3572 - 1.3872FCC Method

Refractive Index 1.3572 - 1.3872 FCC Method Water solubility Practically insoluble

Solubility in other solvents

No information available

Partition coefficient: n-octanol/water

Autoignition temperature

No information available

No information available

No information available

Decomposition temperature

Viscosity, kinematic

No information available

No information available

No information available

Viscosity, kinematic

Viscosity, dynamic

Explosive properties

Oxidizing Properties

No information available
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.

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
ETHYL ALCOHOL	7060 mg/kg (Rat)	-	124.7 mg/L (Rat)4 h
64-17-5			
LIMONENE	4400 mg/kg (Rat)	2000 mg/kg (Rabbit)	-
5989-27-5			
PINENES	2100 mg/kg (Rat)	5000 mg/kg (Rat)	-
80-56-8			
CITRAL	4950 mg/kg (Rat)	2250 mg/kg (Rabbit) 2000 mg/kg	-
5392-40-5	, , ,	(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 64-17-5	A3	Group 1	Known	Х
LIMONENE 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
Specific target organ systemic
toxicity (single exposure)
Specific target organ systemic
toxicity (repeated exposure)
Chronic toxicity

No information available. No information available.

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** 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**

Harmful to aquatic life with long lasting effects

0.37786000001% 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**

regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number D001 U112 U203

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

**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
ERG Code 127

IMDG / IMO

**UN/ID No** 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3 Packing Group II

## 15. REGULATORY INFORMATION

**International Inventories** 

TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS 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

#### **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 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
SAFROLE - 94-59-7	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ETHYL ALCOHOL 64-17-5	X	X	X
PINENES 80-56-8	X	X	X
SAFROLE 94-59-7	X	X	X
TERPINOLENE 586-62-9	X		

#### U.S. EPA Label information

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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** 01-Sep-2016

Revision Note No information available

Revision#

#### **WARNING/DISCLAIMER:**

Our ingredients have not been tested, nor have they been determined safe, for inhalation or use in any electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes, or other similar devices (collectively "E-Cigarettes") or in any E-Liquids used with E-Cigarettes. By receiving Apex Flavors, Inc ingredients, the recipient confirms that they will not use these ingredients in connection with the manufacture and distribution of E-Cigarettes, E-Liquids or any component thereof. WE DISCLAIM, TO THE FULLEST EXTENT PERMITTED BY LAW, ALL WARRANTIES, EXPRESS OR IMPLIED, and disclaim all liability in connection with the use of our ingredients in connection with E-Cigarettes and E-Liquids. All such risks are assumed by you and the user.

### Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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