## APEX FLAVORS, INC.

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision date 21-Apr-2025 Revision Number 1

#### 1. Identification

**Product identifier** 

Product Name Meyer Lemon Type Extract, Natural

Other means of identification

Product Code(s) SC-ITEM 1308TTB

UN number or ID number UN1197

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Food and Beverage Flavoring

Restrictions on use No information available

Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Apex Flavors, Inc. 1361 Brass Mill Rd Suite E Belcamp, MD 21017-1239 United States (410) 565-6600

E-mail address sds@apexflavors.com

Emergency telephone number

Company Phone Number 410-565-6600

Emergency Telephone Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

#### Classification

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

#### Label elements



#### **Danger**

#### **Hazard statements**

Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause cancer.

May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing, eye protection and face protection.

Wash face, hands and any exposed skin thoroughly after handling.

Do not breathe dust.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see .? on this label).

#### Eyes

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 and attention.

#### Skin

IF ON SKIN: Wash with plenty of water and soap.

If skin irritation occurs: Get medical advice and attention.

Take off contaminated clothing and wash it before reuse.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### **Precautionary Statements - Storage**

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

#### **Precautionary Statements - Disposal**

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

#### Other information

Toxic to aquatic life with long lasting effects.

## 3. Composition/information on ingredients

#### **Substance**

Not applicable.

#### Mixture

Che	emical name	CAS No.	Weight-%	Hazardous Material	Date HMIRA filed and
				Information Review	date exemption
				Act registry number	granted (if applicable)

			(HMIRA registry #)	
ETHYL ALCOHOL 190 PROOF FOOD	64-17-5	40.00 - 60.00	-	-
GRADE/KOSHER				
LEMON OIL	8008-56-8	1.00 - 5.00	-	-

## 4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur.

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

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

Effects of Exposure May cause cancer. May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

## 5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other information** Refer to protective measures listed in Sections 7 and 8.

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.

## 7. Handling and storage

#### Precautions for safe handling

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

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient

ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

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

## 8. Exposure controls/personal protection

# Control parameters Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
ETHYL ALCOHOL 190 PROOF FOOD	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900	IDLH: 3300 ppm
GRADE/KOSHER		mg/m³	TWA: 1000 ppm TWA: 1900
64-17-5		(vacated) TWA: 1000 ppm	mg/m³
		(vacated) TWA: 1900 mg/m <sup>3</sup>	

Chemical name	Alberta	British Columbia	Ontario	Quebec
ETHYL ALCOHOL 190 PROOF	TWA: 1000 ppm TWA:	STEL: 1000 ppm	STEL: 1000 ppm	TWA: 1000 ppm TWA:
FOOD GRADE/KOSHER	1880 mg/m <sup>3</sup>			1880 mg/m <sup>3</sup>
64-17-5	-			-

#### **Appropriate engineering 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 safety glasses with side-shields.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid

contact with skin, eyes or clothing.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state
Appearance
Color
Odor
Liquid
Yellow Tinted
Lemon

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

No data available None known Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known None known Flash point 24 C. 76 F. **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available None known Relative vapor density No data available None known Relative density 0.9279 - 0.9449 None known Water solubility Soluble in water None known Solubility(ies) No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known

Other information

No information available **Explosive properties** No information available **Oxidizing properties** Softening point No information available Molecular weight No information available **VOC** content No information available **Liquid Density** No information available No information available **Bulk density** Specific Gravity @ 25C 0.9249 - 0.9449

**Specific Gravity @ 20C** 0.9279 - 0.9479 **Refractive Index @ 20C** 1.3538 - 1.3738

## 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

**Conditions to avoid**None known based on information supplied.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness or dizziness.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. May cause redness and tearing of the eyes. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

Acute toxicity .

**Numerical measures of toxicity** 

#### The following ATE values have been calculated for the mixture

 ATEmix (oral)
 16,809.50 mg/kg

 ATEmix (dermal)
 99,999.00 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

 ATEmix (inhalation-dust/mist)
 157,605.80 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ETHYL ALCOHOL 190 PROOF FOOD GRADE/KOSHER 64-17-5	7060 mg/kg (Rat)	-	124.7 mg/L (Rat)4 h

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

Revision date 21-Apr-2025

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
ETHYL ALCOHOL 190 PROOF	A3	Group 1	Known	X
FOOD GRADE/KOSHER				
64-17-5				

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

Occupational Safety and Health Administration of the US Department of Labor

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
ETHYL ALCOHOL 190 PROOF	-	12.0 - 16.0: 96 h	-	9268 - 14221: 48 h
FOOD GRADE/KOSHER		Oncorhynchus mykiss		Daphnia magna mg/L
64-17-5		mL/L LC50 static 100:		LC50 10800: 24 h
		96 h Pimephales		Daphnia magna mg/L
		promelas mg/L LC50		EC50 2: 48 h Daphnia
		static 13400 - 15100: 96		magna mg/L EC50
		h Pimephales promelas		Static
		mg/L LC50 flow-through		

Persistence and degradability No information available.

#### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient
ETHYL ALCOHOL 190 PROOF FOOD GRADE/KOSHER	-0.32
64-17-5	

Other adverse effects

No information available.

## 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

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

a hazardous waste.

## 14. Transport information

DOT

**UN number or ID number** UN1197

EXTRACTS, LIQUID Proper shipping name

Transport hazard class(es) Ш Packing group **DOT Marine Pollutant** 

Marine pollutant ETHYL ALCOHOL 190 PROOF FOOD GRADE/KOSHER, LEMON OIL

UN1197, EXTRACTS, LIQUID, 3, III, Marine pollutant (ETHYL ALCOHOL 190 PROOF Description

FOOD GRADE/KOSHER, LEMON OIL)

**Special Provisions** B1, IB3, T2, TP1

**Emergency Response Guide** 

Number

127

TDG

UN number or ID number UN1197

**UN** proper shipping name EXTRACTS, FLAVOURING, LIQUID

Transport hazard class(es) Ш Packing group

Marine pollutant name ETHYL ALCOHOL 190 PROOF FOOD GRADE/KOSHER. Description UN1197, EXTRACTS, FLAVOURING, LIQUID, 3, III

MEX

**UN** number or ID number UN1197

**UN proper shipping name** EXTRACTS, LIQUID

Transport hazard class(es)

Packing group

Description UN1197, EXTRACTS, LIQUID, 3, III

**Special Provisions** 223

ICAO (air)

**UN** number or ID number UN1197

**UN** proper shipping name EXTRACTS, LIQUID

Transport hazard class(es)

Packing group

Description UN1197, EXTRACTS, LIQUID, 3, III

Special Provisions A3

<u>IATA</u>

UN number or ID number UN1197

UN proper shipping name EXTRACTS, LIQUID

Transport hazard class(es) 3
Packing group III
ERG Code 3L
Special Provisions A3

**Description** UN1197, EXTRACTS, LIQUID, 3, III

UN number or ID number UN1197

UN proper shipping name EXTRACTS, LIQUID

Transport hazard class(es)

Packing group

EmS-No.

Special Provisions

Marine pollutant

3

III

F-E, S-D

223, 955

Description UN1197, EXTRACTS, LIQUID (ETHYL ALCOHOL 190 PROOF FOOD GRADE/KOSHER),

3, III, (0°C C.C.), Marine pollutant

## 15. Regulatory information

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

## **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

**TSCA** Contact supplier for inventory compliance status.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
WATER	7732-18-5	Present	Active
ETHYL ALCOHOL 190 PROOF FOOD	64-17-5	-	Unknown *
GRADE/KOSHER			
LEMON OIL	8008-56-8	-	Unknown *

<sup>\*</sup>Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC KECL** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **PICCS** AIIC Contact supplier for inventory compliance status. **NZIoC** Contact supplier for inventory compliance status.

#### 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

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

#### **US 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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (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.

## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals: Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage

Chemical name	California Proposition 65
ETHYL ALCOHOL 190 PROOF FOOD GRADE/KOSHER - 64-17-5	Carcinogen
	Developmental

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
WATER	-	-	X
7732-18-5			
ETHYL ALCOHOL 190 PROOF FOOD	X	X	X
GRADE/KOSHER			
64-17-5			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA_	Health hazards 2	Flammability 0	Instability 0	Special hazards -
<u>HMIS</u>	Health hazards 2 *	Flammability 0	Physical hazards 0	Personal protection X

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

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

+ Sensitizers

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 21-Apr-2025

Revision Note No information available.

Disclaimer

#### 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 on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**