



# SAFETY DATA SHEET.

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 27-Dec-2022 Version 1

## 1. Identification

**Product identifier** 

Product name LEMON FLAVOR, NATURAL (OIL SOLUBLE)

Other means of identification

Product Code(s) 1169OS

CAS No NA
FEMA Numbers NA
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

#### Manufacturer

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

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

## 2. Hazard(s) identification

#### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Aspiration hazard	Category 1
Flammable liquids	Category 4

## Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

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# 1169OS - LEMON FLAVOR, NATURAL (OIL SOLUBLE)

## Danger

#### Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May be fatal if swallowed and enters airways

Combustible liquid



Appearance clear

Physical state Liquid

Aroma Characteristic of lemon

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

Obtain special instructions before use

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

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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

IF exposed or concerned: Get medical advice/attention

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

Take off contaminated clothing and wash before reuse

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

## **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

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

Dispose of contents/container to an approved waste disposal plant

0.4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

82.4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Other information

May be harmful if swallowed. May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

## 3. Composition/information on ingredients

#### Substance

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Chemical name	CAS No	Weight-%	Trade secret
FRACTIONATED COCONUT OIL	73398-61-5	50-90%	*
1-methyl-4-(1-methylethenyl)-cyclohexene (LIMONENE)	5989-27-5	10-15%	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

## **Description of first aid measures**

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Rinse mouth.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

## 5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

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.

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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.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

Control parameters

**Appropriate engineering controls** 

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection**No special protective equipment required.

**Skin and body protection**No special protective equipment required.

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

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

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

pHNo data availableNone knownMelting/freezing pointNo data availableNone knownBoiling point/boiling rangeNo data availableNone knownFlash Point73 °C / 164 °F Closed cup

**Evaporation rate** No data available

Flammability (solid, gas) No data available None known

Flammability Limits in Air
Upper flammability limit
No data available

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lower flammability limit No data available

Vapor pressure mm Hg 20°C No data available None known Vapor density No data available None known

Relative density

Solubility in other solvents Oil soluble None known Partition coefficient: n-octanol/waterNo data available None known

**Autoignition temperature** No data available Remarks None known

**Decomposition Temperature VALUE** 

Remarks None known

Viscosity, kinematic No data available None known Viscosity, dynamic No data available. None known

Information on basic physical and chemical properties

Physical state Liquid **Appearance** clear

Color yellow to yellow green Aroma Characteristic of lemon **Odor Threshold** No information available

Property Values Method pН No data available None known Melting/freezing point No data available None known Boiling point/boiling range No data available None known 73 °C / 164 °F Flash Point None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limits in Air None known

**Upper flammability limit** No data available lower flammability limit No data available Vapor pressure mm Hg 20°C No data available

Vapor density No data available None known Relative density None known Water solubility No data available

None known Solubility in other solvents Oil soluble None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition temperature** No data available None known **Decomposition Temperature VALUE** None known

No data available Viscosity, kinematic None known No data available None known Viscosity, dynamic

Other information

No information available **Explosive properties Oxidizing properties** No information available Softening point No information available **Molecular Weight** No information available No information available **VOC** content **Density VALUE** No information available **Bulk Density VALUE** No information available Specific Gravity @ 25C 0.9163 - 0.9363 FCC Method Specific Gravity @ 20C 0.9193 - 0.9393 FCC Method 1.4453 - 1.4653 FCC Method Refractive Index @ 20C

## 10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

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to the requirements of:

None known

Possibility of hazardous reactions None under normal processing.

Conditions to Avoid None known based on information supplied.

**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

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

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

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**Acute toxicity** 

**Numerical measures of toxicity** 

No information available

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 4,723.70 mg/kg **ATEmix (dermal)** 2,222.20 mg/kg

0.4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

82.4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
FRACTIONATED COCONUT	5000 mg/kg (Rat)	-	-
OIL			
73398-61-5			
1-methyl-4-(1-methylethenyl)-cy	4400 mg/kg (Rat)	2000 mg/kg (Rabbit)	-
clohexene (LIMONENE)			
5989-27-5			

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

**Skin corrosion/irritation** No information available.

Serious eye damage/eye irritation No information available.

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

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Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
1-methyl-4-(1-methylethe	-	Group 3	-	-
nyl)-cyclohexene				
(LIMONENE)				
5989-27-5				

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

Other adverse effects No information available.

**Interactive effects**No information available.

## 12. Ecological information

**Ecotoxicity** 

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
FRACTIONATED	-	-	-	2.2: 24 h Daphnia magna
COCONUT OIL				mg/L EC50
73398-61-5				
1-methyl-4-(1-methylethe	-	0.619-0.796: 96 h	-	-
nyl)-cyclohexene		Pimephales promelas		
(LIMONENE)		mg/L LC50 flow-through		
5989-27-5		35: 96 h Oncorhynchus		
		mykiss mg/L LC50		

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

Other adverse effects No information available.

## 13. Disposal considerations

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**Waste treatment** 

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 Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

a hazardous waste.

## 14. Transport information

DOT/ADR Not regulated

ICAO/IATA

UN number or ID number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE)

Transport hazard class(es) 3
Packing group III
ERG Code 171

IMDG / IMO

UN number or ID number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE)

Transport hazard class(es) 3
Packing Group III
Marine pollutant P

## 15. Regulatory information

#### **International Inventories**

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

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

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

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## 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

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 is not, to the best of our knowledge, subject to the labeling requirements under California Proposition 65

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

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
PINENES	X	X	Χ
80-56-8			

#### U.S. EPA Label information

## EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA Health hazards 2 Flammability 2 Instability 0 Special hazards - HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection X

#### Abbreviations, acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA: Time weighted average STEL: Short term exposure limit

Ceiling: \* Skin designation

## 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

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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)

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 27-Dec-2022

**Revision Note**No information available.

## **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.

**End of Safety Data Sheet** 

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