## APEX FLAVORS, INC.

# SAFETY DATA SHEET.



This safety data sheet complies with the requirements of: OSHA CFR Title 29 CFR 1910.1200

Version 1

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

Product identifier

**Product Code(s)** 541, 541BEV, 541ICR, 541TTB

Product name LEMON ELDER FLOWER EXTRACT, NATURAL WONF

**UN/ID No** 1197

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

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 liquid Physical state liquid Aroma No information available

#### **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

- · 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	*
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 If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes.

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

water.

**Inhalation** If symptoms persist, call a physician. Move to fresh air.

**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 Treat symptomatically. May cause sensitization in susceptible persons.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use. Dry chemical. Carbon dioxide CO<sub>2</sub>. Water spray. Alcohol-resistant foam.

#### 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

Keep product and empty container away from heat and sources of ignition. Risk of ignition. 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.

ACGIH TLV	OSHA PEL	NIOSH IDLH
STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900	IDLH: 3300 ppm
	mg/m³	TWA: 1000 ppm TWA: 1900
	(vacated) TWA: 1000 ppm	mg/m³
	(vacated) TWA: 1900 mg/m <sup>3</sup>	_
-	TWA: 15 mg/m <sup>3</sup> mist, total	
	particulate TWA: 5 mg/m³ mist,	
	respirable fraction	
	(vacated) TWA: 10 mg/m³ mist,	
	mg/m³ mist, respirable fraction	
TWA: 20 ppm	-	
STEL: 15 ppm		IDLH: 50 ppm
TWA: 10 ppm		TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>
	TWA: 25 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 37 mg/m <sup>3</sup>
TWA: 5 ppm inhalable fraction	-	
and vapor		
TWA: 400 ppm		IDLH: 2000 ppm
		TWA: 400 ppm TWA: 1400
		mg/m³
	(vacated) TWA: 1400 mg/m <sup>3</sup>	
	-	
	-	
<del>_</del>	TIMA OOO TO TIMA OOO TO TIMA	IDILL 0000 mm
Ceiling: 25 ppm		IDLH: 2000 ppm
	, , ,	
STEL: 100 ppm		IDLH: 1000 ppm
		TWA: 100 ppm
1 WA. 50 PPIII		TWA: 525 mg/m <sup>3</sup>
		1 117 tt 0 20 mg/m
TWA: 10 ppm	- (133333) 1771 020 Highli	
1111 to pp		
	ACGIH TLV STEL: 1000 ppm  TWA: 20 ppm  STEL: 15 ppm TWA: 10 ppm  TWA: 5 ppm inhalable fraction	STEL: 1000 ppm

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** liquid

Aroma No information available Color No information available

**Property** Method Values

No information available Hq

Melting/freezing point **FCC Method** Boiling point/boiling range FCC Method

Flash Point 20 °C / 68 °F Closed cup

**Evaporation rate** No information available No information available Flammability (solid, gas) No information available No information available

Flammability Limits in Air

No information available Upper flammability limit No information available lower flammability limit No information available

Vapor pressure mm Hg 20°C No information available Vapor density No information available

Specific Gravity @ 25C 0.8135 - 0.8335 FCC Method Specific Gravity @ 20C 0.8165 - 0.8365 FCC Method

Refractive Index @ 20C 1.3575 - 1.3775 FCC Method

Water solubility Practically insoluble Solubility in other solvents No information available

Partition coefficient: n-octanol/water No information available **Autoignition temperature** No information available No information available

**Decomposition temperature** No information available Viscosity, kinematic No information available No information available

Viscosity, dynamic No information available **Explosive properties** No information available No information available

**Other information** 

**Oxidizing Properties** 

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

Heat, flames and sparks.

#### **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 Germ Cell Mutagenicity**No information available.
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)

No information available. No information available.

No information available.

**Chronic toxicity** May cause adverse liver effects. Contains a known or suspected reproductive toxin.

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

exposure.

Target Organ Effects Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system,

Skin.

Revision Date 13-Sep-2021

**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**

Toxic to aquatic life with long lasting effects

3.86726% 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

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 64-17-5	Toxic Ignitable
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 ||

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
ACETALDEHYDE - 75-07-0	Carcinogen
MYRCENE - 123-35-3	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	Х	X	Х
ETHYL BUTYRATE 105-54-4	Х	X	Х
Trade Secret	X		

#### U.S. EPA Label information

<u>NFPA</u>	Health Hazard 2	Flammability 4	Instability 0	Physical and chemical hazards *

16. OTHER INFORMATION

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

Revision Date 13-Sep-2021

Revision Note No information available

Revision#

### **WARNING/DISCLAIMER:**

The ingredients/flavors provided by Apex have not been tested, nor have they been deemed safe, for inhalation or use in electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes or other similar devices (collectively "E-Cigarettes"). In supplying ingredients/flavors, Apex instructs, and by receiving such ingredients/flavors recipient confirms, that the ingredients/flavors will not be used in connection with the manufacture and distribution of E-Cigarettes or any component thereof.

#### 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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