## APEX FLAVORS, INC.

## SAFETY DATA SHEET.



This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 15-Oct-2019 Version 5.02

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s) 490BEV

Product name PURE SAGE EXTRACT, NATURAL

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Ingredient for further processing

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer Apex Flavors, Inc.

1371 Brass Mill Rd.

Suite A

Belcamp, MD 21017

(410) 565-6600

For further information, please contact:

E-mail Address cpisano@apexflavors.com

1.4. Emergency telephone number

Emergency telephone Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

## **Section 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute toxicity - Inhalation (Vapors)	Category 2 - (H330)
Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 1A - (H350)
Flammable liquids	Category 2 - (H225)

## 2.2. Label elements

Product identifier



**Signal Word** 

#### Danger

#### **Hazard Statements**

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H350 - May cause cancer

#### Precautionary Statements - EU (§28, 1272/2008)

P310 - Immediately call a POISON CENTER or doctor

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P320 - Specific treatment is urgent (see .? on this label)

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P370 + P378 - In case of fire: Use .? to extinguish

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

#### 2.3. Other information

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
ETHYL ALCOHOL	200-578-6	64-17-5	90-100%	Flam. Liq. 2 (H225) Eye Irrit. 1 (H319)	No data available
CAMPHENE	201-234-8	79-92-5	<1%	Aquatic Acute 1 (H400) Eye Irrit. 1 (H319) Skin Irrit. 3 (H316) Aquatic Chronic 1 (H410) Flam. Sol 2 (H228)	No data available
PINENES	201-291-9	80-56-8	<1%	Aquatic Acute 1 (H400) Skin Sens. 1 (H317) Skin Irrit. 1 (H315) Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Acute Tox. 5 (H303) Flam. Liq. 3 (H226)	No data available
LIMONENE	227-813-5	5989-27-5	<1%	Aquatic Acute 1 (H400) Skin Sens. 1 (H317) Skin Irrit. 1 (H315) Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

Full text of H- and EUH-phrases: see section 16

## **Section 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

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

in attendance.

**Inhalation** Move to fresh air.

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

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

Consult a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Self-protection of the first aider** Remove all sources of ignition.

4.2. Most important symptoms and effects, both acute and delayed

Main Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

## **Section 5: FIRE FIGHTING MEASURES**

#### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

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

#### Unsuitable extinguishing media

No information available

#### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

## Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.

#### For emergency responders

Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

#### 6.3. 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 Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust). Pick up and transfer to properly labeled containers.

#### 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

## **Section 7: HANDLING AND STORAGE**

#### 7.1. 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.

#### **General Hygiene Considerations**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

## 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

#### Incompatible products

None known based on information supplied.

#### 7.3 Specific end use(s)

#### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
ETHYL ALCOHOL	-	STEL: 3000 ppm	VME: 1000 ppm VME:	VLA-ED: 1000 ppm	-
64-17-5		STEL: 5760 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>	VLA-ED: 1910 mg/m <sup>3</sup>	
		TWA: 1000 ppm TWA:			
		1920 mg/m <sup>3</sup>	VLCT: 9500 mg/m <sup>3</sup>		
CAMPHENE	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
79-92-5			STEL: 1500 mg/m <sup>3</sup>		
PINENES	-	-	-	VLA-ED: 20 ppm	-
80-56-8				VLA-ED: 113 mg/m <sup>3</sup>	
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
ETHYL ALCOHOL	-	TWA: 1000 ppm	Skin	TWA: 1000 ppm TWA:	TWA: 1000 ppm TWA:
64-17-5			STEL: 1900 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>
			TWA: 260 mg/m <sup>3</sup>	STEL: 1300 ppm	
				STEL: 2500 mg/m <sup>3</sup>	
PINENES	-	TWA: 20 ppm	-	-	-
80-56-8					
LIMONENE	-	-	-	TWA: 25 ppm TWA:	-
5989-27-5				140 mg/m <sup>3</sup>	
				STEL: 50 ppm STEL:	
				280 mg/m <sup>3</sup>	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
ETHYL ALCOHOL	STEL 2000 ppm STEL	STEL: 1000 ppm	NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA:	TWA: 1000 ppm TWA:
64-17-5	3800 mg/m <sup>3</sup>	STEL: 1920 mg/m <sup>3</sup>		950 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>
	MAK: 1000 ppm MAK:	MAK: 500 ppm MAK:		STEL: 625 ppm STEL:	
	1900 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>		1187.5 mg/m <sup>3</sup>	
PINENES	-	-	-	TWA: 25 ppm TWA:	-
80-56-8				140 mg/m <sup>3</sup>	
				Skin	
				STEL: 37.5 ppm	
				STEL: 175 mg/m <sup>3</sup>	
LIMONENE	-	STEL: 40 ppm STEL:	-	TWA: 25 ppm TWA:	-

5989-27-5	220 mg/m <sup>3</sup>	140 mg/m <sup>3</sup>	
	MAK: 20 ppm MAk	(: STEL: 37.5 ppm	
	110 mg/m <sup>3</sup>	STEL: 175 mg/m <sup>3</sup>	

**Derived No Effect Level (DNEL)**No information available.

**Predicted No Effect Concentration** 

(PNEC)

No information available.

8.2. Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

**Eye/face protection** Tightly fitting safety goggles.

Skin and body protection Antistatic boots. Wear fire/ flame resistant/ retardant clothing. Impervious gloves.

**Respiratory protection** NIOSH/MSHA approved respiratory protection is required to be worn.

**Environmental Exposure Controls** No information available.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. Information on basic physical and chemical properties

Physical state liquid Appearance clear

Aroma characteristic of sage; herbaceous and medicinal with some bitterness

Color nearly colorless

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

pH No information available

Melting/freezing pointNo information availableBoiling point/boiling rangeFCC Method

Flash Point 17 °C / 62 °F Closed cup
Evaporation rate FCC Method

Flammability (solid, gas)

No information available

Flammability Limits in Air

Upper flammability limitNo information availablelower flammability limitNo information availableVapor pressure mm Hg 20°CNo information available

Vapor density

Relative density

No information available
No information available

 Specific Gravity @ 25C
 0.812 - 0.822
 FCC Method

 Specific Gravity @ 20C
 0.815 - 0.825
 FCC Method

Refractive Index 1.3625 - 1.3725 FCC Method
Water solubility No information available

Solubility in other solvents

Partition coefficient: n-octanol/water

Autoignition temperature

Decomposition temperature

Viscosity, kinematic

No information available
No information available
No information available
No information available

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

9.2. Other information

Softening pointNo information availableMolecular WeightNo information availableVOC Content(%)No information available

No information available

Density VALUE No information available Bulk Density VALUE No information available

## **Section 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

#### 10.3. Possibility of hazardous reactions

#### **Hazardous Reactions**

None under normal processing.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

None under normal use conditions.

## **Section 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

#### **Acute toxicity**

#### **Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

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

ATEmix (oral) 7,432.00 mg/kg
ATEmix (inhalation-dust/mist) 69,678.34 mg/l
ATEmix (inhalation-vapor) 0.80 mg/l

Unknown Acute Toxicity

99.36% of the mixture consists of ingredient(s) of unknown toxicity.

4.36 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

99.36 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

99.36 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

99.36 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

4.36 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

#### Oral LD50

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
ETHYL ALCOHOL	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h

Skin corrosion/irritation No information available.

Eye damage/irritation No information available.

Sensitization No information available.

**Germ Cell Mutagenicity** No information available.

Carcinogenicity No information available.

No information available. Reproductive toxicity

Specific target organ systemic

toxicity (single exposure)

No information available.

Specific target organ systemic

toxicity (repeated exposure)

No information available.

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

Skin.

No information available. **Aspiration hazard** 

## **Section 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life

3.56% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
ETHYL ALCOHOL	-	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
CAMPHENE	1000: 72 h Desmodesmus subspicatus mg/L EC50	0.72: 96 h Brachydanio rerio mg/L LC50 flow-through 150: 96 h Brachydanio rerio mg/L LC50 static	22: 48 h Daphnia magna mg/L EC50
PINENES	-	0.28: 96 h Pimephales promelas mg/L LC50 static	41: 48 h Daphnia magna mg/L LC50
LIMONENE	-	0.619-0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	-

#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

No information available.

Chemical Name	log Pow
ETHYL ALCOHOL	-0.32
PINENES	4.1

#### 12.4. Mobility in soil

## Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

No information available.

## 12.6. Other adverse effects

No information available

## **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Empty remaining contents. Contaminated packaging

## **Section 14: TRANSPORT INFORMATION**

IMDG / IMO

14.1 UN/ID No 1197

14.2 Proper shipping name EXTRACTS, FLAVOURING, LIQUID

14.3 Hazard class 3 Ш

14.4 Packing Group

DOT/ADR/RID

14.1 UN/ID No

14.2 Proper shipping name EXTRACTS, FLAVOURING, LIQUID

14.3 Hazard class 3 14.4 Packing Group Ш

ICAO/IATA

14.1 UN/ID No

14.2 Proper shipping name EXTRACTS, FLAVOURING, LIQUID

14.3 Hazard class 3 14.4 Packing Group Ш

14.5 Environmental hazard Not applicable

14.6 Special Provisions None

## **Section 15: REGULATORY INFORMATION**

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

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

**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

## 15.2. Chemical safety assessment

No information available

## **Section 16: OTHER INFORMATION**

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

## Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed

R20 - Harmful by inhalation

R11 - Highly flammable

R68/22 - Harmful: possible risk of irreversible effects if swallowed

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### Full text of H-Statements referred to under section 3

H400 - Very toxic to aquatic life

H317 - May cause an allergic skin reaction

H315 - Causes skin irritation

H304 - May be fatal if swallowed and enters airways

H410 - Very toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H316 - Causes mild skin irritation

H228 - Flammable solid

H303 - May be harmful if swallowed

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA: Time weighted average STEL: Short term exposure limit

Ceiling: Maximum limit value: \* Skin designation

Revision Date 15-Oct-2019

Reason for revision: Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **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.