





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

Revision Date 08-Jul-2019

Version 1

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

Product Code(s)	743CON, 743CBD
Product name	SPEARMINT FLAVOR, NATURAL (OIL SOLUBLE)

Pure substance/mixture

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

Mixture

- **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, pla	ease 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 ILATION (EC) No 11

REGULATION (EC) NO 1272/2008	
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 3 - (H412)





Hazard Statements

- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H412 Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008) P280 - Wear eye protection/ face protection

- P321 Specific treatment (see .? on this label)
- P273 Avoid release to the environment

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
CARVONE	202-759-5	99-49-0	5-10%	Aquatic Acute 3 (H402) Skin Sens. 1 (H317) Skin Irrit. 3 (H316) Acute Tox. 4 (H302) Acute Tox. 5 (H313)	No data available
LIMONENE	227-813-5	5989-27-5	1-5%	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
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

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

Inhalation	Move to fresh air. 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.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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.

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

Note to physicians May cause sensitization in susceptible persons.

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 In the event of fire and/or explosion do not breathe fumes May cause sensitization in susceptible persons

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

Use personal protective equipment. Avoid contact with eyes and skin.

For emergency responders

Use personal protection recommended in Section 8.

6.2. 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.

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	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.

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. Use personal protective equipment as required.

General Hygiene Considerations

When using, do not eat, drink or smoke. Wash contaminated clothing before reuse.

7.2. 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.

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
PINENES	-	-	-	VLA-ED: 20 ppm	-
80-56-8				VLA-ED: 113 mg/m ³	
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
LIMONENE	-	-	-	TWA: 25 ppm TWA:	-
5989-27-5				140 mg/m ³	
				STEL: 50 ppm STEL:	
				280 mg/m ³	
PINENES	-	TWA: 20 ppm	-	-	-
80-56-8					
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
LIMONENE	-	STEL: 40 ppm STEL:	-	TWA: 25 ppm TWA:	-
5989-27-5		220 mg/m ³		140 mg/m ³	
		MAK: 20 ppm MAK:		STEL: 37.5 ppm	
		110 mg/m ³		STEL: 175 mg/m ³	
PINENES	-	-	-	TWA: 25 ppm TWA:	-
80-56-8				140 mg/m ³	
	1			Skin	
				STEL: 37.5 ppm	

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration No information available. **(PNEC)**

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	Long sleeved clothing.
Respiratory protection	NIOSH/MSHA approved respiratory protection is required to be worn.

Environmental Exposure Controls Do not allow material to contaminate ground water system.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

liquid

Appearance	
Aroma	
Color	

Property

clear characteristic of spearmint colorless

Method

FCC Method Closed cup FCC Method

No information available No information available

No information available

No information available No information available No information available No information available FCC Method FCC Method FCC Method

No information available No information available

Values

рН	
Melting/freezing point	
Boiling point/boiling range	
Flash Point	93 °C / 200 °F
Evaporation rate	
Flammability (solid, gas)	
Flammability Limits in Air	
Upper flammability limit	
lower flammability limit	
Vapor pressure mm Hg 20°C	
Vapor density	
Relative density	
Specific Gravity @ 25C	0.9302 - 0.9602
Specific Gravity @ 20C	0.9332 - 0.9632
Refractive Index	1.44310 - 1.46310
Water solubility	
Solubility in other solvents	
Partition coefficient: n-octanol/wate	r
Autoignition temperature	
Decomposition temperature	
Viscosity, kinematic	
Viscosity, dynamic	
Explosive properties	No information available
Oxidizing Properties	No information available
9.2. Other information	

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

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.

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral) 4,522.00 mg/kg

ATEmix (oral)
ATEmix (dermal)
Unknown Acute Toxicity
99.8% of the mixture consists of in

99.8% of the mixture consists of ingredient(s) of unknown toxicity.

1.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

91.8 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

99.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

2,412.00 mg/kg

99.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

99.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Oral LD50

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
LIMONENE	4400 mg/kg (Rat)	2000 mg/kg (Rabbit)	
PINENES	2100 mg/kg (Rat)	5000 mg/kg (Rat)	
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.		
Reproductive toxicity	No information available.		
Specific target organ systemic toxicity (single exposure)	No information available.		
Specific target organ systemic toxicity (repeated exposure)	No information available.		
Aspiration hazard	No information available.		

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Harmful to aquatic life Harmful to aquatic life with long lasting effects

1.8% 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
LIMONENE	-	0.619-0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	-
PINENES	-	0.28: 96 h Pimephales promelas mg/L LC50 static	41: 48 h Daphnia magna mg/L LC50

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical Name	log Pow
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.
Contaminated packaging	Empty remaining contents.
Other Information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

IMDG / IMO 14.1 UN/ID No

Not regulated

14.2 Proper shipping name14.3 Hazard class14.4 Packing Group	Not regulated Not regulated Not regulated
Not regulated	
DOT/ADR/RID	
14.1 UN/ID No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.1 UN/ID No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
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	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

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

AICE Australian Inventory of 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

R43 - May cause sensitization by skin contact

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

R52/53 - Harmful 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
- H303 May be harmful if swallowed
- H402 Harmful to aquatic life
- H316 Causes mild skin irritation
- H302 Harmful if swallowed
- H313 May be harmful in contact with skin

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	08-Jul-2019		

Reason for revision:

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

Not applicable.

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.