





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

Revision Date 09-Jul-2019

Version 1

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

1.1. Product identifier

Product Code(s) Product name	516CBD Moroccan Mint Type Flavor, Natural WONF (Oil Soluble)
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 sa	fety data sheet
Manufacturer	Apex Flavors, Inc. 1371 Brass Mill Rd. Suite A Belcamp, MD 21017 (410) 565-6600
For further information, please cont	
E-mail Address 1.4. Emergency telephone number	cpisano@apexflavors.com
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				
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 %	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
L-Limonene	227-815-6	5989-54-8	<1%	Aquatic Acute 1 (H400) Skin Sens. 1 (H317) Skin Irrit. 2 (H316) 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

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	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 upSoak 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	
				Skin	
				STEL: 37.5 ppm	
				STEL: 175 mg/m ³	
L-Limonene	-	-	-	TWA: 25 ppm TWA:	-
5989-54-8				140 mg/m ³	
				STEL: 37.5 ppm	
				STEL: 175 mg/m ³	

Derived No Effect Level (DNEL) No

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 Skin and body protection

Tightly fitting safety goggles. 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 Appearance Aroma Color	liquid clear spearmint peppermint colorless	
<u>Property</u> pH	<u>Values</u>	• <u>Method</u> No information available
Melting/freezing point		No information available
Boiling point/boiling range Flash Point	93 °C / 200 °F	FCC Method Closed cup
Evaporation rate	95 67200 1	FCC Method
Flammability (solid, gas)		No information available
Flammability Limits in Air		
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
Relative density		No information available
Specific Gravity @ 25C	0.93 - 0.96	FCC Method
Specific Gravity @ 20C Refractive Index	0.933 - 0.963 1.4379 - 1.4679	FCC Method FCC Method
Water solubility	1.4379 - 1.4079	No information available
Solubility in other solvents		No information available
Partition coefficient: n-octanol/wat	er	No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties	No information available	
Oxidizing Properties	No information available	
9.2. Other information		
Softening point	No information available	
Molecular Weight	No information available	
VOC Content(%)	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.

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

h	he following values are calculated based or	chapter 3.1 of the GHS document
	ATEmix (oral) 4,608.00	mg/kg
	ATEmix (dermal) 2,673.00	mg/kg
	Unknown Acute Toxicity	
	99.02% of the mixture consists of ingredient	s) of unknown toxicity.
	1.82 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
	91.82 % of the mixture consists of ingredient	(s) of unknown acute dermal toxicity.
	99.02 % of the mixture consists of ingredient	(s) of unknown acute inhalation toxicity (gas).
	99.02 % of the mixture consists of ingredient	(s) of unknown acute inhalation toxicity (vapor)

ity (vapor). 99.02 % 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.	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	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

1.75% 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	41: 48 h Daphnia magna mg/L LC50
		mg/L LC50 static	

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 14.2 Proper shipping name 14.3 Hazard class 14.4 Packing Group	Not regulated 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
ICAO/IATA	
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	-
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

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
- H316 Causes mild skin irritation
- H303 May be harmful if swallowed
- H402 Harmful to aquatic life
- 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: Ceiling:	Time weighted average Maximum limit value:	STEL:	Short term exposure limit Skin designation
Revision Date	09-Jul-2019		

Not applicable.

Reason for revision:

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.