# SAFETY DATA SHEET.



Version 1

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

### 1.1. Product identifier

Number	716CBD, 716CON, 716PET
Manufacturer	Apex Flavors, Inc. 1361 Brass Mill Rd Suite E Belcamp, MD 21017 410-565-6600
Product name Pure substance/mixture	ROTISSERIE CHICKEN TYPE, NATURAL FLAVOR BLEND (OIL SOLUBLE) Mixture
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Recommended Use	No information available
1.3. Details of the supplier of the saf	ety data sheet
For further information, please contact:	<u>.</u>
E-mail Address	cpisano@apexflavors.com
1.4. Emergency telephone number	
Emergency telephone	Chemtrec: 1-800-424-9300 for US/ Outside US Chemtel 813-248-0585

# 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Flammable liquids

Category 4

**Classification according to EU Directives 67/548/EEC or 1999/45/EC** For the full text of the *R*-phrases mentioned in this Section, see Section 16

Symbol(s) Not dangerous

2.2. Label elements

Signal Word Warning

H227 - Combustible liquid

## **Precautionary Statements**

P403 + P235 - Store in a well-ventilated place. Keep cool P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P280 - Wear protective gloves/ eye protection/ face protection

### 2.3. Other information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical Name	EC-No	CAS-No	Alternate CAS #	Weight %	n according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
LIMONENE	227-813-5	5989-27-5		<1	R10, XI; R38, XI; R43, N; R50/53;	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
PINENES	201-291-9	80-56-8		<1	R10, XI; R43, N; R50/53, XN; R65;	Aquatic Acute 1 (H400) Skin Sens. 1 (H317) Skin Irrit. 3 (H316) Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Acute Tox. 5 (H303) Flam. Liq. 3 (H226)	No data available
CAMPHENE	Present	79-92-5		<1	R11, XI; R36, N; R50/53;	Aquatic Acute 1 (H400) Eye Irrit. 1 (H319) Skin Irrit. 3 (H316) Aquatic Chronic 1 (H410) Flam. Sol 2 (H228)	No data available
ALLYL PROPYL SULFIDE	218-550-7	2179-59-1		<1	-	No data available	No data available

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

# 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

Eye contactRinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Skin contactWash off immediately with soap and plenty of water while removing all contaminated<br/>clothes and shoes.IngestionClean mouth with water and drink afterwards plenty of water.InhalationMove to fresh air.

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

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

Note to physicians Treat symptomatically

# 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

### Suitable Extinguishing Media

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

# Extinguishing media which shall not be used for safety reasons

No information available

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

# Special Hazard

None

### 5.3. Advice for firefighters

### Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation.

See Section 12 for additional Ecological Information

### 6.2. Environmental precautions

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

# 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ensure adequate ventilation.

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

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

7.3 Specific end use(s)

Exposure scenario N/A

Other Guidelines N/A

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
LIMONENE					MAK: 20 ppm MAK:
5989-27-5					110 mg/m <sup>3</sup>
					Ceiling / Peak: 40 ppm
					Ceiling / Peak: 220
					mg/m <sup>3</sup>
					TWA: 20 ppm TWA:
					110 mg/m <sup>3</sup>
PINENES				VLA-ED: 20 ppm	
80-56-8				VLA-ED: 113 mg/m <sup>3</sup>	
CAMPHENE			TWA: 1000 mg/m <sup>3</sup>		
79-92-5			STEL: 1500 mg/m <sup>3</sup>		

# 716CBD, 716CON, 716PET ROTISSERIE CHICKEN TYPE, NATURAL FLAVOR BLEND (OIL SOLUBLE)

ALLYL PROPYL SULFIDE 2179-59-1		TWA: 2 ppm TWA: 12 mg/m <sup>3</sup>	TWA: 0.5 ppm TWA: 3 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 12 mg/m <sup>3</sup> Ceiling / Peak: 2 ppm Ceiling / Peak: 12 mg/m <sup>3</sup>
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Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
LIMONENE 5989-27-5				TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 50 ppm STEL: 280 mg/m <sup>3</sup>	
PINENES 80-56-8		TWA: 20 ppm			
ALLYL PROPYL SULFIDE 2179-59-1		TWA: 0.5 ppm		TWA: 2 ppm TWA: 12 mg/m <sup>3</sup> STEL: 4 ppm STEL: 25 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 12 mg/m <sup>3</sup>

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
LIMONENE 5989-27-5			STEL: 40 ppm STEL: 220 mg/m <sup>3</sup> MAK: 20 ppm MAK: 110 mg/m <sup>3</sup>		TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>
PINENES 80-56-8		25 ppm NGV 150 mg/m³ NGV			TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> Skin STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>
ALLYL PROPYL SULFIDE 2179-59-1	TWA: 2 ppm TWA: 12 mg/m <sup>3</sup>		STEL: 2 ppm STEL: 12 mg/m <sup>3</sup> TWA: 2 ppm TWA: 12 mg/m <sup>3</sup>	STEL: 18 mg/m <sup>3</sup> TWA: 12 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 12 mg/m <sup>3</sup> STEL: 4 ppm STEL: 18 mg/m <sup>3</sup>

Component	Ireland
ALLYL PROPYL SULFIDE	TWA: 0.5 ppm
2179-59-1 ( <1 )	STEL: 1.5 ppm

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 Protection Hand Protection Skin and body protection Respiratory protection	Tightly fitting safety goggles Protective gloves Long sleeved clothing When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure Controls	No information available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state Odor	liquid meaty savory reminiscent of rotisserie oven roasted chicken	Appearance Color	clear to slightly cloudy yellow to amber
<u>Property</u> pH Melting/freezing poir Boiling point/boiling		<u>Method</u> No information available No information available FCC Method	
Flash Point Evaporation rate Flammability (solid, g Flammability Limits Upper flammability lower flammability	n Air / limit	Closed cup FCC Method No information available No information available	
Vapor pressure mm Vapor density Relative density Specific Gravity @ 2 Specific Gravity @ 2 Refractive Index Water solubility Partition coefficient: Autoignition tempera Decomposition temp Viscosity, dynamic	Hg 20°C 5C 0.9105 - 0.9305 0C 0.9135 - 0.9335 1.4705 - 1.4765 n-octanol/water ature	No information available No information available No information available FCC Method FCC Method FCC Method No information available No information available No information available No information available No information available	
Explosive properties Oxidizing Properties			
9.2. Other informatio	n 0.08459 No information available		
Molecular Weight	10. STABILITY AND REA	ACTIVITY	

### 10.1. Reactivity

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Heat, flames and sparks

### 10.5. Incompatible materials

No materials to be especially mentioned

### 10.6. Hazardous decomposition products

None under normal use conditions

# **11. TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

Acute toxicity	
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
Acute toxicity	99.8923816% of the mixture consists of ingredient(s) of unknown toxicity

Skin corrosion/irritation Eye damage/irritation Sensitization Germ Cell Mutagenicity Carcinogenicity	No information available No information available No information available No information available No information available
Specific target organ systemic toxicity (single exposure)	No information available
Specific target organ systemic toxicity (repeated exposure)	No information available
Target Organ Effects	No information available
Aspiration hazard	No information available

# **12. ECOLOGICAL INFORMATION**

### 12.1. Toxicity

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

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	
CAMPHENE	1000: 72 h Desmodesmus	0.72: 96 h Brachydanio rerio mg/L	22: 48 h Daphnia magna mg/L
	subspicatus mg/L EC50	LC50 flow-through 150: 96 h	EC50
		Brachydanio rerio 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

No information available

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

13. DISPOSAL CONSIDERATIONS		
13.1. Waste treatment methods		
Waste from residues / unused products	Dispose of in accordance with local regulations	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal	
14. TRANSPORT INFORMATION		
DOT/ADR	Not regulated	
IMDG / IMO	Not regulated	
ICAO/IATA	Not regulated	

# **15. REGULATORY INFORMATION**

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

WGK Classification

International Inventories All of the components in the product are on the following Inventory lists: No information available.

TSCA	-
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List PICCS - Philippines Inventory of Chemicals and Chemical Substances **ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances **AICS** - Australian Inventory of Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

### 15.2. Chemical safety assessment

## **16. OTHER INFORMATION**

### Full text of H-Statements referred to under sections 2 and 3

H400 - Very toxic to aquatic life H317 - May cause an allergic skin reaction H316 - Causes mild 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 H319 - Causes serious eye irritation H228 - Flammable solid H303 - May be harmful if swallowed

Revision Date	19-Oct-2016
Revision Note	Not applicable.
Revision#	1

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

### 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.

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