# 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 08-Jul-2019 Version 1

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

1.1. Product identifier

Product Code(s) 750CON

**Product name** MINT CHOCOLATE TYPE, NATURAL FLAVOR BLEND (OIL SOLUBLE)

Mixture Pure substance/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

Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 1A - (H350)

2.2. Label elements

Danger

**Product identifier** 

Contains ETHYL ALCOHOL



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#### **Hazard Statements**

H319 - Causes serious eye irritation

H350 - May cause cancer

Contains ISOVALERALDEHYDE EUH208 - May produce an allergic reaction

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

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

#### 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	10-15%	Flam. Liq. 2 (H225) Eye Irrit. 1 (H319)	No data available
LAEVO MENTHOL	Present	2216-51-5	1-5%	Aquatic Acute 3 (H402) (EFFA) Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 2 (315) (EFFA) Acute Tox. 5 (H303)(EFFA) Flam. Liq. 4 (H227)(EFFA)	No data available
ISOVALERALDEHYDE	Present	590-86-3	<1%	Aquatic Acute 2 (H401) (EFFA) Skin Sens. 1 (H317) (EFFA) Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 3 (316) (EFFA) Flam. Liq. 2 (H225) (EFFA) Acute Tox. 5 (H303)(EFFA)	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
METHYL N-AMYL KETONE FCC (2-Heptanone)	Present	110-43-0	<1%	Acute Tox. 4 (H302) Acute Tox. 4 (H302) (EFFA) Flam. Liq. 3 (H226)(EFFA) Acute Tox. 4 (H332)(EFFA) Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available
DIMETHYL SULFIDE	200-846-2	75-18-3	<1%	Skin Irrit. 3 (316) (EFFA) Acute Tox. 3 (H301) (EFFA) Flam. Liq. 2 (H225) (EFFA)	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.

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**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.

Francisco United The United Minustees

#### 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

STEL: 3000 ppm   STEL: 5760 mg/m³   TWA: 1000 ppm TWA: 1900 mg/m³   VLCT: 9500 mg/m³	Chemical Name	European Union	The United Kingdom	France	Spain	Germany
TWA: 1000 ppm TWA: 1920 mg/m³	ETHYL ALCOHOL	-	STEL: 3000 ppm	VME: 1000 ppm VME:	VLA-ED: 1000 ppm	-
METHYL N-AMYL KETONE   S*   TWA 50 ppm TWA   238 mg/m³   STEL: 100 ppm STEL: 475 mg/m³   TWA: 50 ppm TWA: 237 mg/m³   STEL: 100 ppm STEL: 475 mg/m³   TWA: 50 ppm TWA: 237 mg/m³   STEL: 100 ppm STEL: 475 mg/m³   TWA: 50 ppm TWA: 237 mg/m³   TWA: 200 mg/m³   TWA: 200 mg/m³   STEL: 300 ppm STEL: 300 mg/m³   STEL: 300 mg/m³   STEL: 300 mg/m³   STEL: 300 mg/m³   STEL: 2500 mg/m³   STEL: 2500 mg/m³   STEL: 2500 mg/m³   STEL: 300 mg/m³   STEL:	64-17-5		STEL: 5760 mg/m <sup>3</sup>		VLA-ED: 1910 mg/m <sup>3</sup>	
METHYL N-AMYL KETONE   S* TWA 50 ppm TWA: 238 mg/m³   STEL: 100 ppm STEL: 475 mg/m³   TWA: 50 ppm TWA: 237 mg/m³   TWA: 260 mg/m³   STEL: 1300 ppm STEL: 475 mg/m³   STEL: 2500 mg/m³   STEL: 2500 mg/m³   STEL: 2500 mg/m³   STEL: 2500 mg/m³   STEL: 360 mg/m³   STEL: 360 mg/m³   SKin   STEL: 2000 ppm STEL: 475 mg/m³   Skin   SKin   STEL: 2000 ppm STEL: 475 mg/m³   STEL: 2000 mg/m³			TWA: 1000 ppm TWA:	VLCT: 5000 ppm		
FCC (2-Heptanone)			1920 mg/m <sup>3</sup>	VLCT: 9500 mg/m <sup>3</sup>		
TWA: 50 ppm TWA: 237 mg/m³   TWA: 260 mg/m³   TWA: 260 mg/m³   TWA: 260 mg/m³   TWA: 260 mg/m³   TWA: 50 ppm TWA: 238 mg/m³   TWA: 50 ppm TWA: 238 mg/m³   TWA: 50 ppm TWA: 238 mg/m³   TWA: 233 mg/m³   TWA: 50 ppm TWA: 238 mg/m³   TWA: 50 ppm TWA:	METHYL N-AMYL KETONE	S*	STEL: 100 ppm STEL:	TWA: 50 ppm TWA:	S*	-
STEL 100 ppm STEL	FCC (2-Heptanone)	TWA 50 ppm TWA	475 mg/m <sup>3</sup>	238 mg/m <sup>3</sup>	STEL: 100 ppm STEL:	
DIMETHYL SULFIDE   T75-18-3   TWA: 1000 ppm   TWA: 1000 ppm   TWA: 1000 ppm   TWA: 1900 mg/m³   Skin   Stell: 1900 mg/m³   Skin   Stell: 1900 mg/m³   Stell: 1900 mg	110-43-0		TWA: 50 ppm TWA:	STEL: 100 ppm STEL:	474 mg/m <sup>3</sup>	
DIMETHYL SULFIDE   75-18-3		STEL 100 ppm STEL	237 mg/m <sup>3</sup>	475 mg/m <sup>3</sup>	TWA: 50 ppm TWA:	
Tolerate		475 mg/m <sup>3</sup>	Skin		237 mg/m <sup>3</sup>	
Chemical Name         Italy         Portugal         The Netherlands         Finland         Denmark           ETHYL ALCOHOL 64-17-5         -         TWA: 1000 ppm         Skin STEL: 1900 mg/m³ TWA: 260 mg/m³ STEL: 1300 ppm         TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 2500 mg/m³ STEL: 2500 mg/m³ STEL: 2500 mg/m³ STEL: 2500 mg/m³ STEL: 2500 mg/m³ STEL: 2500 mg/m³ STEL: 750 ppm TWA: 240 mg/m³ STEL: 75 ppm STEL: 475 mg/m³ Skin         TWA: 50 ppm TWA: 240 mg/m³ STEL: 75 ppm STEL: 360 mg/m³ Skin         Skin Skin         TWA: 50 ppm TWA: 240 mg/m³ STEL: 75 ppm STEL: 360 mg/m³ Skin         Skin         -         -           DIMETHYL SULFIDE 75-18-3         -	DIMETHYL SULFIDE	-	-	-	VLA-ED: 10 ppm	-
ETHYL ALCOHOL 64-17-5	75-18-3					
STEL: 1900 mg/m³   1900 mg/m³   STEL: 1300 ppm   STEL: 2500 mg/m³   STEL: 1300 ppm   STEL: 2500 mg/m³   ST	Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
TWA: 260 mg/m³   STEL: 1300 ppm   STEL: 2500 mg/m³   STEL: 240 mg/m³   STEL: 2500 mg/m³   STEL: 240 mg/m³   STEL: 2500 mg/m³   STEL: 240 mg/m³   STEL: 2500 mg/m³	ETHYL ALCOHOL	-	TWA: 1000 ppm	Skin	TWA: 1000 ppm TWA:	TWA: 1000 ppm TWA:
METHYL N-AMYL KETONE FCC (2-Heptanone)	64-17-5			STEL: 1900 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>
METHYL N-AMYL KETONE FCC (2-Heptanone)				TWA: 260 mg/m <sup>3</sup>	STEL: 1300 ppm	_
FCC (2-Heptanone)						
FCC (2-Heptanone)	METHYL N-AMYL KETONE	TWA: 50 ppm TWA:	TWA: 50 ppm	TWA: 233 mg/m <sup>3</sup>	TWA: 50 ppm TWA:	TWA: 50 ppm TWA:
MAK: 500 ppm MAK: 1900 mg/m³   STEL 10 ppm	FCC (2-Heptanone)				240 mg/m <sup>3</sup>	238 mg/m <sup>3</sup>
Skin	110-43-0	STEL: 100 ppm STEL:			STEL: 75 ppm STEL:	Skin
DIMETHYL SULFIDE   75-18-3		475 mg/m <sup>3</sup>			360 mg/m <sup>3</sup>	
T5-18-3		Skin			Skin	
T5-18-3	DIMETHYL SULFIDE	-	TWA: 10 ppm	-	=	-
ETHYL ALCOHOL 64-17-5 STEL 2000 ppm STEL 3800 mg/m³ STEL: 1000 ppm STEL: 1920 mg/m³ STEL: 1920 mg/m³ MAK: 1000 ppm MAK: 1000 ppm MAK: 1900 mg/m³ MAK: 500 ppm MAK: 960 mg/m³ STEL: 625 ppm STEL: 1900 mg/m³ STEL: 625 ppm STEL: 1900 mg/m³ STEL: 1900 mg/m³ STEL: 625 ppm STEL: 1900 mg/m³ STEL: 1900 mg/m³ STEL: 1900 mg/m³ STEL: 625 ppm STEL: 1900 mg/m³ STEL: 1900 mg/m³ STEL: 1900 mg/m³ STEL: 625 ppm STEL: 1900 mg/m³ S	75-18-3					
64-17-5 3800 mg/m³ STEL: 1920 mg/m³ 950 mg/m³ 1900 mg/m³ STEL: 625 ppm STEL: 1900 mg/m³ STEL: 625 ppm STEL: 1900 mg/m³ 1900 mg/m³ STEL: 625 ppm STEL: 1900 mg/m³ 1800 mg/m³ 1187.5 mg/m³ 1800 mg/m³ 1900 mg/m³ 19	Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
MAK: 1000 ppm MAK:   MAK: 500 ppm MAK:   STEL: 625 ppm STEL:   1900 mg/m³   960 mg/m³   1187.5 mg/m³   -   -   -   -   -	ETHYL ALCOHOL	STEL 2000 ppm STEL	STEL: 1000 ppm	NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA:	TWA: 1000 ppm TWA:
1900 mg/m³ 960 mg/m³ 1187.5 mg/m³	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>
ISOVALERALDEHYDE		MAK: 1000 ppm MAK:	MAK: 500 ppm MAK:		STEL: 625 ppm STEL:	_
590-86-3 STEL 39 mg/m³		1900 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>		1187.5 mg/m <sup>3</sup>	
	ISOVALERALDEHYDE	STEL 10 ppm	=	-	=	-
TWA: 10 ppm	590-86-3					
		TWA: 10 ppm				

	TWA: 39 mg/m <sup>3</sup> Ceiling 10 ppm Ceiling 39 mg/m <sup>3</sup>				
L-Limonene	-	=	-	TWA: 25 ppm TWA:	-
5989-54-8				140 mg/m <sup>3</sup>	
				STEL: 37.5 ppm	
				STEL: 175 mg/m <sup>3</sup>	
METHYL N-AMYL KETONE	Skin	TWA: 50 ppm TWA:	STEL: 475 mg/m <sup>3</sup>	TWA: 25 ppm TWA:	TWA: 50 ppm TWA:
FCC (2-Heptanone)	STEL 100 ppm STEL	235 mg/m <sup>3</sup>	TWA: 238 mg/m <sup>3</sup>	115 mg/m <sup>3</sup>	238 mg/m <sup>3</sup>
110-43-0	473 mg/m <sup>3</sup>	_		Skin	STEL: 100 ppm STEL:
	TWA: 50 ppm TWA:			STEL: 37.5 ppm	475 mg/m <sup>3</sup>
	237 mg/m <sup>3</sup>			STEL: 143.75 mg/m <sup>3</sup>	Skin
DIMETHYL SULFIDE	=	=	=	=	TWA: 20 ppm
75-18-3					

**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 mint chocolate

Color Pale yellow

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

pHNo information availableMelting/freezing pointNo information available

Boiling point/boiling range FCC Method

Flash Point 93 °C / 200 °F Closed cup Evaporation rate FCC Method

Flammability (solid, gas)

No information available

Flammability Limits in Air

Upper flammability limit
Iower flammability limit
Vapor pressure mm Hg 20°C
No information available
No information available

Vapor pressure mm Hg 20°CNo information availableVapor densityNo information availableRelative densityNo information available

 Specific Gravity @ 25C
 0.9237 - 0.9537
 FCC Method

 Specific Gravity @ 20C
 0.9267 - 0.9567
 FCC Method

 Refractive Index
 1.428 - 1.458
 FCC Method

Refractive Index 1.428 - 1.458 FCC Method
Water solubility No information available
Solubility in other solvents No information available

Partition coefficient: n-octanol/water

Autoignition temperature

Decomposition temperature

Viscosity, kinematic

No information available
No information available
No information available

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No information available

Viscosity, dynamic

No information available

**Explosive properties Oxidizing Properties** 

No information available

9.2. Other information

Softening point
Molecular Weight
VOC Content(%)
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

Heat, flames and sparks.

#### 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) 5,130.00 mg/kg
ATEmix (dermal) 7,739.00 mg/kg
ATEmix (inhalation-dust/mist) 82,049.23 mg/l

**Unknown Acute Toxicity** 

(OIL SOLUBLE)

96.8635% of the mixture consists of ingredient(s) of unknown toxicity.

0.72275 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

91.1135 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

96.8635 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

96.8635 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

83.7685 % 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.

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.

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

Skin.

**Aspiration hazard** No information available.

## **Section 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

1.06525% 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	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
		Pimephales promelas mg/L LC50 flow-through	
LAEVO MENTHOL	-	18.9: 96 h Pimephales promelas mg/L LC50 flow-through	-
ISOVALERALDEHYDE	80: 72 h Desmodesmus subspicatus mg/L EC50 78: 96 h Desmodesmus subspicatus mg/L EC50	2.98 - 3.54: 96 h Pimephales promelas mg/L LC50 flow-through 53: 96 h Leuciscus idus mg/L LC50 static	177: 48 h Daphnia magna mg/L EC50
METHYL N-AMYL KETONE FCC (2-Heptanone)	-	126 - 137: 96 h Pimephales promelas mg/L LC50 flow-through	-
DIMETHYL SULFIDE	-	-	23: 48 h Daphnia pulex mg/L EC50

## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

No information available.

Chemical Name	log Pow
ETHYL ALCOHOL	-0.32
ISOVALERALDEHYDE	1.31
METHYL N-AMYL KETONE FCC (2-Heptanone)	1.98

#### 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.

# **Section 14: TRANSPORT INFORMATION**

#### IMDG / IMO

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

# 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

Not regulated
Not regulated
Not regulated
Not regulated
Not applicable
None

Revision Date 08-Jul-2019

## **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

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

R10 - Flammable

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

H302 - Harmful if swallowed

H226 - Flammable liquid and vapor

H332 - Harmful if inhaled

H402 - Harmful to aquatic life

H319 - Causes serious eye irritation

H303 - May be harmful if swallowed

H227 - Combustible liquid

H401 - Toxic to aquatic life

H317 - May cause an allergic skin reaction

H225 - Highly flammable liquid and vapor

H400 - Very toxic to aquatic life

H316 - Causes mild skin irritation

H304 - May be fatal if swallowed and enters airways

H410 - Very toxic to aquatic life with long lasting effects

H301 - Toxic 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 08-Jul-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.