# 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-2018 Version 1

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

1.1. Product identifier

Product Code(s) 583TTB

Product name BLOOD ORANGE ITALIAN EXTRACT, NATURAL (TAROCCO VARIETAL)

Mixture

Pure substance/mixture

Contains LIMONENE, ETHYL ALCOHOL

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

NEGOE/11/01/ (EO) 110 12/2/2000	
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 1A - (H350)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

# 2.2. Label elements

**Product identifier** 

Contains LIMONENE, ETHYL ALCOHOL



Signal Word Danger

## **Hazard Statements**

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H350 - May cause cancer

H412 - Harmful to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

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

P280 - Wear eye protection/ face protection

P321 - Specific treatment (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

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
ETHYL ALCOHOL	200-578-6	64-17-5	50-90%	Flam. Liq. 2 (H225) Eye Irrit. 1 (H319)	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

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.

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**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
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:	VLCT: 5000 ppm		
		1920 mg/m <sup>3</sup>	VLCT: 9500 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>	
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:	Ţ
	1900 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>		1187.5 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 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.

**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 clear

**Odor** reminiscent of blood orange

**Color** yellow

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

PH No information available

Melting/freezing point

No information available

Boiling point/boiling range

FCC Method

Flash Point 26 °C / 78 °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
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
 0.936 - 0.966
 FCC Method

 Specific Gravity @ 20C
 0.939 - 0.969
 FCC Method

 Refractive Index
 1.366 - 1.396
 FCC Method

Refractive Index 1.366 - 1.396 FCC Method
Water solubility No information available
Solubility in other solvents No information available

Partition coefficient: n-octanol/waterNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, kinematicNo information availableViscosity, dynamicNo information available

Explosive properties No information available 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

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)
 6,777.00 mg/kg

 ATEmix (dermal)
 2,769.00 mg/kg

 ATEmix (inhalation-dust/mist)
 63,196.55 mg/l

Unknown Acute Toxicity

99.985% of the mixture consists of ingredient(s) of unknown toxicity.

40.065 % of the mixture consists of ingredient(s) of unknown acute oral toxicity. 97.065 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

99.985 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas). 99.985 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor). 41.985 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
ETHYL ALCOHOL	7060 mg/kg (Rat)		124.7 mg/L (Rat)4 h
LIMONENE	4400 mg/kg ( Rat )	2000 mg/kg (Rabbit)	

**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.

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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

**Ecotoxicity**Toxic to aquatic life Harmful to aquatic life with long lasting effects

40.065% 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	<u>-</u>	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
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

# 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**

# (TAROCCO VARIETAL)

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** 1197

14.2 Proper shipping name EXTRACTS, FLAVOURING, LIQUID

14.3 Hazard class 3 14.4 Packing Group III

DOT/ADR/RID

**14.1 UN/ID No** 1197

**14.2 Proper shipping name** EXTRACTS, FLAVOURING, LIQUID

14.3 Hazard class 3 14.4 Packing Group III

ICAO/IATA

**14.1 UN/ID No** 1197

14.2 Proper shipping name EXTRACTS, FLAVOURING, LIQUID

14.3 Hazard class 3 14.4 Packing Group III

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

ENCS
Complies
IECSC
Complies
KECL
PICCS
Complies
Complies
Complies
Complies
Complies
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

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

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

#### Leaend

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-2018

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.

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