# SAFETY DATA SHEET.



Version 1.01

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

1.1. Product identifier

Number 567

Manufacturer Apex Flavors, Inc.

1371 Brass Mill Rd.

Suite A

Belcamp, MD 21017 (410) 565-6600

Product name JABUTICABA TYPE FLAVOR, NATURAL & ARTIFICIAL

Pure substance/mixture Mixture

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

Recommended Use Not for direct consumption

1.3. Details of the supplier of the safety data sheet

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

#### 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A
Acute aquatic toxicity	Category 2
Flammable liquids	Category 2

#### 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)

F - Highly flammable

R-code(s)

F;R11

# 2.2. Label elements



# Signal Word

Danger

# **Hazard Statements**

H315 - Causes skin irritation

H318 - Causes serious eye damage

H350 - May cause cancer

H401 - Toxic to aquatic life

#### **Precautionary Statements**

P321 - Specific treatment (see .? on this label)

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical advice/ attention

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

#### 2.3. Other information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical Name	EC-No	CAS-No	Alternate CAS #	Weight %	Classificatio n according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
ETHYL ALCOHOL	200-578-6	64-17-5		50-90%	F; R11	Flam. Liq. 2 (H225) Eye Irrit. 1 (H319)	No data available
LACTIC ACID	Present	50-21-5		5-10%		Eye Dam. 1 (H318) (EFFA) Skin Irrit. 2 (315) (EFFA) Acute Tox. 5 (H303)(EFFA)	No data available
LINALOOL	201-134-4	78-70-6		1-5%	XI; R38	Aquatic Acute 3 (H402) Skin Irrit. 2 (H315) Acute Tox. 5 (H303) Flam. Liq. 4 (H227)	No data available
ETHYL ACETATE	Present	141-78-6		<1	F; R11 Xi; R36 R66	Eye Irrit. 1 (H319) (EFFA) Flam. Liq. 2 (H225) (EFFA) Eye Irrit. 1 (H319)	No data available

				R67	(EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	
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. 1 (H315) Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226)	No data available
MYRCENE	204-622-5	123-35-3	<1	-	Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 2 (315) (EFFA) Asp. Tox. 1 (H304) (EFFA) Eye Irrit. 1 (H319) Skin Irrit. 2 (H315)	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

General advice Immediate medical attention is required Show this material safety data sheet to the doctor

in attendance.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off immediately with plenty of water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Inhalation** Move to fresh air.

Self-protection of the first aider Remove all sources of ignition

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

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.

See Section 12 for additional Ecological Information

#### 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

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. 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.

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

Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

#### 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
ETHYL ALCOHOL		STEL: 3000 ppm	VME: 1000 ppm VME:	VLA-ED: 1000 ppm	MAK: 500 ppm MAK:
64-17-5		STEL: 5760 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>	VLA-ED: 1910 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>
		TWA: 1000 ppm TWA:	VLCT: 5000 ppm		Ceiling / Peak: 1000
		1920 mg/m <sup>3</sup>	VLCT: 9500 mg/m <sup>3</sup>		ppm Ceiling / Peak:
					1920 mg/m <sup>3</sup>
					Skin
					TWA: 500 ppm TWA:
					960 mg/m <sup>3</sup>
ETHYL ACETATE		STEL: 400 ppm	TWA: 400 ppm TWA:	TWA: 400 ppm TWA:	TWA: 400 ppm TWA:
141-78-6		TWA: 200 ppm	1400 mg/m <sup>3</sup>	1460 mg/m <sup>3</sup>	1500 mg/m <sup>3</sup>
					Ceiling / Peak: 800
					ppm Ceiling / Peak:
					3000 mg/m <sup>3</sup>
LIMONENE					MAK: 20 ppm MAK:
5989-27-5					110 mg/m <sup>3</sup>
					Ceiling / Peak: 40 ppm
					Ceiling / Peak: 220

			mg/m³ TWA: 20 ppm TWA: 110 mg/m³
MYRCENE		TWA: 1000 mg/m <sup>3</sup>	
123-35-3		STEL: 1500 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>	
ETHYL ACETATE		TWA: 400 ppm		TWA: 300 ppm TWA:	TWA: 150 ppm TWA:
141-78-6				1100 mg/m <sup>3</sup>	540 mg/m <sup>3</sup>
				STEL: 500 ppm STEL:	
				1800 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	Sweden - Occupational Exposure Limits -	Switzerland	Poland	Norway
ETHYL ALCOHOL 64-17-5	STEL 2000 ppm STEL 3800 mg/m <sup>3</sup> MAK: 1000 ppm MAK: 1900 mg/m <sup>3</sup>	TLVs (LLVs) 500 ppm NGV 1000 mg/m³ NGV	STEL: 1000 ppm STEL: 1920 mg/m³ MAK: 500 ppm MAK: 960 mg/m³	NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 950 mg/m³ STEL: 625 ppm STEL: 1187.5 mg/m³
ETHYL ACETATE 141-78-6	STEL 600 ppm STEL 2100 mg/m <sup>3</sup> TWA: 300 ppm TWA: 1050 mg/m <sup>3</sup>	150 ppm NGV 500 mg/m³ NGV	STEL: 800 ppm STEL: 2800 mg/m <sup>3</sup> TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>	STEL: 600 mg/m <sup>3</sup> TWA: 200 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 550 mg/m³ STEL: 187.5 ppm STEL: 687.5 mg/m³
LIMONENE 5989-27-5			STEL: 40 ppm STEL: 220 mg/m³ MAK: 20 ppm MAK: 110 mg/m³		TWA: 25 ppm TWA: 140 mg/m³ STEL: 37.5 ppm STEL: 175 mg/m³
MYRCENE 123-35-3					TWA: 40 ppm TWA: 275 mg/m <sup>3</sup> STEL: 60 ppm STEL: 343.75 mg/m <sup>3</sup>

Component	Ireland
ETHYL ALCOHOL	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
64-17-5 ( 50-90% )	• • • • • • • • • • • • • • • • • • • •
ETHYL ACETATE	TWA: 200 ppm
141-78-6 ( <1 )	STEL: 400 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 Protection** Tightly fitting safety goggles

Hand Protection Protective gloves

**Skin and body protection**Antistatic boots Wear fire/ flame resistant/ retardant clothing Impervious gloves

When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators

General Hygiene Considerations When using, do not eat, drink or smoke Provide regular cleaning of equipment, work area

and clothing

Environmental Exposure Controls No information available

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state liquid Appearance clear

Odor Jabuticaba fruit Color Colorless to pale yellow.

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

pH No information available

Melting/freezing point No information available

Melting/freezing pointNo information availableBoiling point/boiling rangeFCC Method

Flash Point 18 °C / 65 °F Closed cup Evaporation rate FCC Method

Flammability (solid, gas)

Flammability Limits in Air

No information available
No information available

Upper flammability limit lower flammability limit

Vapor pressure mm Hg 20°C

No information available

Vapor densityNo information availableRelative densityNo information available

 Specific Gravity @ 25C
 0.8273 - 0.8423
 FCC Method

 Specific Gravity @ 20C
 0.8303 - 0.8453
 FCC Method

 Refractive Index
 1.3564 - 1.3864
 FCC Method

Refractive Index 1.3564 - 1.3864 FCC Method
Water solubility No information available
Partition coefficient: n-octanol/water No information available

Autoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, dynamicNo information available

Explosive properties No information available Oxidizing Properties No information available

9.2. Other information

VOC Content(%) 85.41006

Molecular Weight No information available

# 10. STABILITY AND REACTIVITY

#### 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 0.11769% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 1, 2005):

**Oral** 5,894.00 mg/kg

**Inhalation** 

Mist 77,725.77 mg/l

Skin corrosion/irritationNo information availableEye damage/irritationNo information availableSensitizationNo information available

Germ Cell Mutagenicity
Carcinogenicity

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 Blood Central nervous system Eyes Liver Reproductive system Respiratory system Skin

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

	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 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
İ	LINALOOL	88.3: 96 h Desmodesmus subspicatus mg/L EC50	22-46: 96 h Leuciscus idus mg/L LC50 static	20: 48 h Daphnia magna mg/L EC50
	ETHYL ACETATE	3300: 48 h Desmodesmus subspicatus mg/L EC50	220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 352 - 500: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	560: 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
LINALOOL	3.1
ETHYL ACETATE	0.6

# 12.4. Mobility in soil

No information available

# 12.5. Results of PBT and vPvB assessment

#### 12.6. Other adverse effects

Endocrine Disruptor Information .? is a suspected endocrine disruptor

# 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

**UN/ID No** 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class3Packing GroupIIERG Code127

IMDG / IMO

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3 UN/ID No 1197 Packing Group II

ICAO/IATA

**UN/ID No** 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3 Packing Group II

# 15. REGULATORY INFORMATION

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

#### **WGK Classification**

Chemical Name	Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes
ETHYL ALCOHOL 64-17-5	Hazard Class 1
LINALOOL 78-70-6	Hazard Class 1
ETHYL ACETATE 141-78-6	Hazard Class 1

#### International Inventories

All of the components in the product are on the following Inventory lists: United States of America (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

**TSCA** Complies **EINECS/ELINCS** Complies Complies **DSL/NDSL** Complies **PICCS** Complies **ENCS IECSC** Complies Complies **AICS KECL** Complies

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

H319 - Causes serious eye irritation H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H225 - Highly flammable liquid and vapor H336 - May cause drowsiness or dizziness H318 - Causes serious eye damage H303 - May be harmful if swallowed H400 - Very toxic to aquatic life H317 - May cause an allergic skin reaction H410 - Very toxic to aquatic life with long lasting effects H226 - Flammable liquid and vapor H402 - Harmful to aquatic life H227 - Combustible liquid EUH066 - Repeated exposure may cause skin dryness or cracking

Revision Date 26-Jul-2018

Revision Note Not applicable.

Revision# 1.01

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.

#### **Disclaimer**

Food ingredients that are safe to be consumed in food products may pose hazards if not handled properly. This product is intended to be used in food products and, not intended to be consumed in its present form. The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.