APEX FLAVORS, INC.

## SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

Number 019TTB

Manufacturer Apex Flavors, Inc.

1371 Brass Mill Rd.

Suite A

Belcamp, MD 21017 (410) 565-6600

Product name

Pure substance/mixture

Pineapple Type, Natural & Artificial (Contains < 0.10% Artificial Top Note) Mixture

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

Recommended Use No information available

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/ Outside US Chemtel 813-248-0585.

## 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Acute inhalation toxicity - dust/mist	Category 4
Carcinogenicity	Category 1A
Acute aquatic toxicity	Category 3
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

2.2. Label elements



Signal Word Danger

## 019TTB Pineapple Type, Natural & Artificial (Contains < 0.10% Artificial Top Note) Revision Date 02-May-2016

## **Hazard Statements**

H332 - Harmful if inhaled

H350 - May cause cancer

H402 - Harmful to aquatic life

#### H227 - Combustible liquid

## **Precautionary Statements**

P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

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

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 %	Classificatio n according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
PROPYLENE GLYCOL	200-338-0	57-55-6		50-90%	-	No data available	No data available
ETHYL ALCOHOL	200-578-6	64-17-5		1-5%	F; R11	Flam. Liq. 2 (H225) Flam. Liq. 2 (H225)	No data available
ALLYL CAPROATE	204-642-4	123-68-2		<1	-	Aquatic Acute 2 (H401) (EFFA) Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 2 (315) (EFFA) Acute Tox. 3 (H301) (EFFA) Acute Tox. 3 (H311)(EFFA) Flam. Liq. 4 (H227)(EFFA)	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 contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

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

**Inhalation** Move 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

PROPYLENE GLYCOL 57-55-6	STEL: 450 ppm STEL: 1422 mg/m³ STEL: 30 mg/m³ TWA: 150 ppm TWA: 474 mg/m³ TWA: 10 mg/m³			
ETHYL ALCOHOL 64-17-5	STEL: 3000 ppm STEL: 5760 mg/m³ TWA: 1000 ppm TWA: 1920 mg/m³	VME: 1000 ppm VME: 1900 mg/m³ VLCT: 5000 ppm VLCT: 9500 mg/m³	VLA-ED: 1000 ppm VLA-ED: 1910 mg/m³	MAK: 500 ppm MAK: 960 mg/m³ Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m³ Skin TWA: 500 ppm TWA: 960 mg/m³

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>	

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
PROPYLENE GLYCOL 57-55-6					TWA: 25 ppm TWA: 79 mg/m³ STEL: 37.5 ppm STEL: 118.5 mg/m³
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>	500 ppm NGV 1000 mg/m³ NGV	STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup> MAK: 500 ppm MAK: 960 mg/m <sup>3</sup>	NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 950 mg/m³ STEL: 625 ppm STEL: 1187.5 mg/m³

Component	Ireland
PROPYLENE GLYCOL 57-55-6 ( 50-90% )	TWA: 150 ppm TWA: 470 mg/m³ TWA: 10 mg/m³
ETHYL ALCOHOL 64-17-5 ( 1-5% )	TWA: 1000 ppm TWA: 1900 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 Protection** Tightly fitting safety goggles

Hand Protection Protective gloves
Skin and body protection Long sleeved clothing

Respiratory protection 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 stateliquidAppearanceclearOdorpineappleColorcolorless

<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 93 °C / 200 °F Closed cup

Evaporation rate 93 °C / 200 °F Closed cup

FCC Method

Flammability (solid, gas)

Flammability Limits in Air

Upper flammability limit

No information available
No information available

lower flammability limit
Vapor pressure mm Hq 20°C
No information available

Vapor density

No information available
Relative density

No information available

 Specific Gravity @ 25C
 1.0208 - 1.0508
 FCC Method

 Specific Gravity @ 20C
 1.0238 - 1.0538
 FCC Method

 Refractive Index
 1.3931 - 1.4231
 FCC Method

Water solubilityNo information availablePartition coefficient: n-octanol/waterNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information available

Explosive properties No information available Oxidizing Properties No information available

9.2. Other information

Viscosity, dynamic

VOC Content(%) 64.8254407318309 Molecular Weight No information available

## 10. STABILITY AND REACTIVITY

No information available

## 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 34.30053% 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** 12,657.00 mg/kg **Dermal** 15,281.00 mg/kg

Inhalation

Mist 4.99 mg/l

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
PROPYLENE GLYCOL	20000 mg/kg (Rat)	20800 mg/kg ( Rabbit )	
ETHYL ALCOHOL	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h
ALLYL CAPROATE	218 mg/kg (Rat)	300 mg/kg (Rabbit)	

Skin corrosion/irritationNo information availableEye damage/irritationNo information availableSensitizationNo information availableGerm Cell MutagenicityNo information availableCarcinogenicityNo 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
PROPYLENE GLYCOL	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50	10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static

## 019TTB Pineapple Type, Natural & Artificial (Contains < 0.10% Artificial Top Note) Revision Date 02-May-2016

ETHYL ALCOHOL	12.0 - 16.0: 96 h Oncorhynchus	9268 - 14221: 48 h Daphnia magna
	mykiss mL/L LC50 static 100: 96 h	mg/L LC50 10800: 24 h Daphnia
	Pimephales promelas mg/L LC50	magna mg/L EC50 2: 48 h Daphnia
	static 13400 - 15100: 96 h	magna mg/L EC50 Static
	Pimephales promelas mg/L LC50	
	flow-through	
ALLYL CAPROATE	30: 96 h Carassius auratus 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

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

DOTNot regulatedIMDG / IMONot regulatedICAO/IATANot regulated

## 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
PROPYLENE GLYCOL 57-55-6	Hazard Class 1

## 019TTB Pineapple Type, Natural & Artificial (Contains < 0.10% Artificial Top Note) Revision Date 02-May-2016

ETHYL ALCOHOL	Hazard Class 1
64-17-5	

#### 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

H401 - Toxic to aquatic life H319 - Causes serious eye irritation H301 - Toxic if swallowed H311 - Toxic in contact with skin H227 - Combustible liquid H225 - Highly flammable liquid and vapor

Revision Date 02-May-2016

Revision Note Not applicable.

Revision# 1

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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