## APEX FLAVORS, INC.

## SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

Number 710CBD

Manufacturer Apex Flavors, Inc.

1371 Brass Mill Rd

Suite A

Belcamp, MD 21017 (410) 565-6600

Product name PINEAPPLE TYPE, NATURAL FLAVOR BLEND (OIL SOLUBLE)

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/ 703-527-3887 outside US

## 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

| Acute oral toxicity               | Category 4  |
|-----------------------------------|-------------|
| Acute dermal toxicity             | Category 5  |
| Skin corrosion/irritation         | Category 2  |
| Serious eye damage/eye irritation | Category 2A |
| Acute aquatic toxicity            | Category 2  |
| Chronic aquatic toxicity          | Category 3  |
| 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

#### 2.2. Label elements



## Signal Word Warning

#### **Hazard Statements**

H302 - Harmful if swallowed

H313 - May be harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

## **Precautionary Statements**

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

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<br>CAS # | Weight % | Classificatio<br>n according<br>to Directive<br>67/548/EEC<br>or<br>1999/45/EC | Classification<br>according to<br>Regulation (EC) No.<br>1272/2008 [CLP]   | REACH<br>Registration<br>Number |
|----------------|-----------|----------|--------------------|----------|--|--|---------------------------------|
| ETHYL ALCOHOL  | Present   | 64-17-5  |                    | 10-15%   | F; R11   | Eye Irrit. 1 (H319) (EFFA)<br>Flam. Liq. 2 (H225) (EFFA)<br>Flam. Liq. 2 (H225)  | No data available               |
| ALLYL CAPROATE | 204-642-4 | 123-68-2 |                    | 5-10%    | -  | Aquatic Acute 2 (H401)<br>(EFFA) Eye Irrit. 1 (H319)<br>(EFFA) Skin Irrit. 2 (315)<br>(EFFA) Acute Tox. 3<br>(H301) (EFFA) Acute Tox.<br>3 (H311)(EFFA) Flam. Liq.<br>4 (H227)(EFFA) | No data available               |
| ETHYL ACETATE  | Present   | 141-78-6 |                    | 1-5%     | F; R11<br>Xi; R36<br>R66<br>R67  | Eye Irrit. 1 (H319) (EFFA)<br>Flam. Liq. 2 (H225) (EFFA)<br>Eye Irrit. 1 (H319)<br>(EUH066)<br>Flam. Liq. 2 (H225)<br>STOT SE 3 (H336)<br>Eye Irrit. 2 (H319)                        | No data available               |

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| 2-METHYLBUTYRIC | 204-145-2 | 116-53-0 | 1-5% | - | Skin Corr. 1C (314) (EFFA) | No data available |
|-----------------|-----------|----------|------|---|----------------------------|-------------------|
| ACID            |           |          |      |   | Eye Dam. 1 (H318) (EFFA)   |                   |
|                 |           |          |      |   | Acute Tox. 4 (H302)        |                   |
|                 |           |          |      |   | (EFFA) Acute Tox. 4        |                   |
|                 |           |          |      |   | (H312)(EFFA) Flam. Liq. 4  |                   |
|                 |           |          |      |   | (H227)(EFFA)               |                   |

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

Prevent further leakage or spillage if safe to do so.

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

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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

This product, as supplied, does not contain any hazardous materials with occupational **Exposure limits** 

exposure limits established by the region specific regulatory bodies

| Chemical Name  | European Union   | The United Kingdom   | France   | Spain  | Germany  |  |
|--|--|--|--|--|--|--|
| ETHYL ALCOHOL<br>64-17-5   |  | STEL: 3000 ppm<br>STEL: 5760 mg/m³<br>TWA: 1000 ppm<br>TWA: 1920 mg/m³                       | TWA: 1000 ppm<br>TWA: 1900 mg/m³<br>STEL: 5000 ppm<br>STEL: 9500 mg/m³ | STEL: 1000 ppm<br>STEL: 1910 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 960 mg/m³<br>Ceiling / Peak: 1000<br>ppm<br>Ceiling / Peak: 1920<br>mg/m³<br>Skin |  |
| ETHYL ACETATE<br>141-78-6  |  | STEL: 400 ppm<br>TWA: 200 ppm  | TWA: 400 ppm TWA:<br>1400 mg/m <sup>3</sup>                            | TWA: 400 ppm TWA:<br>1460 mg/m <sup>3</sup>  | TWA: 400 ppm TWA:<br>1500 mg/m³<br>Ceiling / Peak: 800<br>ppm Ceiling / Peak:<br>3000 mg/m³            |  |
| Component  | Italy  | Portugal   | The Netherlands  | Finland  | Denmark  |  |
| ETHYL ALCOHOL<br>64-17-5 ( 10-15% )  |  | TWA: 1000 ppm  | Skin<br>STEL: 1900 mg/m³<br>TWA: 260 mg/m³                             | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 1300 ppm<br>STEL: 2500 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>   |  |
| ETHYL ACETATE<br>141-78-6 ( 1-5% )   |  | TWA: 400 ppm   |  | TWA: 300 ppm TWA:<br>1100 mg/m³<br>STEL: 500 ppm STEL:<br>1800 mg/m³                           | TWA: 150 ppm TWA: 540 mg/m <sup>3</sup>  |  |
| Chemical Name  | Austria  | Sweden -<br>Occupational<br>Exposure Limits -<br>TLVs (LLVs)                                 | Switzerland  | Poland   | Norway   | ETHYL A<br>64-                           |
| STEL 2000 ppm<br>STEL 3800 mg/m <sup>3</sup><br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> | 500 ppm NGV<br>1000 mg/m³ NGV  | STEL: 1000 ppm<br>STEL: 1920 mg/m <sup>3</sup><br>TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup> | TWA: 1900 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 950 mg/m <sup>3</sup><br>STEL: 625 ppm<br>STEL: 1187.5 mg/m <sup>3</sup>  | ETHYL ACETATE<br>141-78-6  | STEL 6<br>STEL 210<br>TWA: 3<br>TWA: 105 |
| 150 ppm NGV 500 mg/m <sup>3</sup><br>NGV   | STEL: 800 ppm STEL:<br>2800 mg/m³<br>TWA: 400 ppm TWA:<br>1400 mg/m³ | STEL: 600 mg/m <sup>3</sup><br>TWA: 200 mg/m <sup>3</sup>                                    | TWA: 150 ppm TWA:<br>550 mg/m³<br>STEL: 187.5 ppm<br>STEL: 687.5 mg/m³ |  |  |  |

No information available **Derived No Effect Level (DNEL)** 

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

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

appropriate certified respirators

Handle in accordance with good industrial hygiene and safety practice. **General Hygiene Considerations** 

**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

Colorless to light yellow. Odor pineapple Color

Property Values Method

рΗ No information available Melting/freezing point No information available

Boiling point/boiling range FCC Method Flash Point 20 °C / 68 °F Closed cup

**Evaporation rate** FCC Method

Flammability (solid, gas) No information available Flammability Limits in Air No information available Upper flammability limit

lower flammability limit

No information available Vapor pressure mm Hg 20°C Vapor density No information available Relative density No information available

Specific Gravity @ 25C 0.9040 - 0.9240 FCC Method Specific Gravity @ 20C 0.907 - 0.927 FCC Method

FCC Method **Refractive Index** 1.4190 - 1.4390 No information available Water solubility

Partition coefficient: n-octanol/water No information available No information available **Autoignition temperature** 

**Decomposition temperature** No information available No information available Viscosity, dynamic

**Explosive properties** No information available **Oxidizing Properties** No information available

9.2. Other information

VOC Content(%) 20.2254997119308 **Molecular Weight** No information available

## 10. STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

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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** 

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

**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 3.1245% 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
 1,951.00 mg/kg

 Dermal
 3,480.00 mg/kg

| Chemical Name        | Oral LD50        | Dermal LD50         | LC50 Inhalation      |
|----------------------|------------------|---------------------|----------------------|
| ETHYL ALCOHOL        |                  |                     | 124.7 mg/L (Rat) 4 h |
| ALLYL CAPROATE       | 218 mg/kg (Rat)  | 300 mg/kg (Rabbit)  |                      |
| ETHYL ACETATE        | 5620 mg/kg (Rat) | 20 mL/kg (Rabbit)   |                      |
| 2-METHYLBUTYRIC ACID | 1870 μL/kg (Rat) | 1460 μL/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

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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<br>mykiss mL/L LC50 static 100: 96 h<br>Pimephales promelas mg/L LC50<br>static 13400 - 15100: 96 h<br>Pimephales promelas mg/L LC50<br>flow-through      | 9268 - 14221: 48 h Daphnia magna<br>mg/L LC50 2: 48 h Daphnia magna<br>mg/L EC50 Static |
| ALLYL CAPROATE |   | 30: 96 h Carassius auratus mg/L<br>LC50  |   |
| ETHYL ACETATE  | 3300: 48 h Desmodesmus<br>subspicatus mg/L EC50 | 220 - 250: 96 h Pimephales<br>promelas mg/L LC50 flow-through<br>484: 96 h Oncorhynchus mykiss<br>mg/L LC50 flow-through 352 - 500:<br>96 h Oncorhynchus mykiss mg/L<br>LC50 semi-static | 560: 48 h Daphnia magna mg/L<br>EC50 Static   |

#### 12.2. Persistence and degradability

No information available

#### 12.3. Bioaccumulative potential

No information available

| Chemical Name | log Pow |
|---------------|---------|
| ETHYL ALCOHOL | -0.32   |
| 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

## 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

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DOT

IMDG / IMO

Proper shipping name FLAMMABLE LIQUID, N.O.S. (ETHYL ALCOHOL, ETHYL BUTYRATE)

Hazard class 3 UN/ID No 1993 Packing Group II

ICAO/IATA

**UN/ID No** 1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (ETHYL ALCOHOL, ETHYL BUTYRATE)

Hazard class 3
Packing Group II
ERG Code 128

## 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<br>Hazard Classes |
|---------------------------|--|
| ETHYL ALCOHOL<br>64-17-5  | Hazard Class 1   |
| ETHYL ACETATE<br>141-78-6 | Hazard Class 1   |

#### **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**

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

H318 - Causes serious eye damage H302 - Harmful if swallowed H312 - Harmful in contact with skin H227 - Combustible liquid H401 - Toxic to aquatic life H319 - Causes serious eye irritation H301 - Toxic if swallowed H311 - Toxic in contact with skin H225 - Highly flammable liquid and vapor H336 - May cause drowsiness or dizziness EUH066 - Repeated exposure may cause skin dryness or cracking

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Revision Note Not applicable.

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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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