



This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 01-Jul-2019

Version 5

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

### 1.1. Product identifier

**Product Code(s)** 031TTB  
**Product name** COCONUT TYPE, NATURAL & ARTIFICIAL (Contains < 0.10% Artificial Top Note)

**Pure substance/mixture** 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.  
1361 Brass Mill Rd.  
Suite E  
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/ Outside US Chemtel 813-248-0585

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

|  |                      |
|--|----------------------|
| <b>Serious eye damage/eye irritation</b> | Category 2 - (H319)  |
| <b>Carcinogenicity</b>                   | Category 1A - (H350) |
| <b>Flammable liquids</b>                 | Category 3 - (H226)  |

### 2.2. Label elements

**Product identifier**  
Contains ETHYL ALCOHOL



**Signal Word**  
Danger

**Hazard Statements**

H319 - Causes serious eye irritation  
H350 - May cause cancer  
H226 - Flammable liquid and vapor

**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  
P370 + P378 - In case of fire: Use .? to extinguish  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

**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  | 30-50%   | Flam. Liq. 2 (H225)<br>Eye Irrit. 1 (H319)  | No data available         |
| METHYL N-AMYL KETONE FCC<br>(2-Heptanone) | Present   | 110-43-0 | <1%      | Acute Tox. 4 (H302)<br>Acute Tox. 4 (H302) (EFFA)<br>Flam. Liq. 3 (H226)(EFFA) Acute<br>Tox. 4 (H332)(EFFA)<br>Flam. Liq. 3 (H226)<br>Acute Tox. 4 (H332) | 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.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**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.

**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** Treat symptomatically.

## 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**

Ensure adequate ventilation.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### 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

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

### 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.

#### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

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

#### **Storage Conditions**

Keep container tightly closed in a dry and 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<br>64-17-5                              | -   | STEL: 3000 ppm<br>STEL: 5760 mg/m <sup>3</sup><br>TWA: 1000 ppm TWA:<br>1920 mg/m <sup>3</sup>    | VME: 1000 ppm VME:<br>1900 mg/m <sup>3</sup><br>VLCT: 5000 ppm<br>VLCT: 9500 mg/m <sup>3</sup> | VLA-ED: 1000 ppm<br>VLA-ED: 1910 mg/m <sup>3</sup>  | -   |
| METHYL N-AMYL KETONE<br>FCC (2-Heptanone)<br>110-43-0 | S*<br>TWA 50 ppm TWA<br>238 mg/m <sup>3</sup><br>STEL 100 ppm STEL<br>475 mg/m <sup>3</sup>       | STEL: 100 ppm STEL:<br>475 mg/m <sup>3</sup><br>TWA: 50 ppm TWA:<br>237 mg/m <sup>3</sup><br>Skin | TWA: 50 ppm TWA:<br>238 mg/m <sup>3</sup><br>STEL: 100 ppm STEL:<br>475 mg/m <sup>3</sup>      | S*<br>STEL: 100 ppm STEL:<br>474 mg/m <sup>3</sup><br>TWA: 50 ppm TWA:<br>237 mg/m <sup>3</sup>       | -   |
| Chemical Name   | Italy   | Portugal  | The Netherlands  | Finland   | Denmark   |
| ETHYL ALCOHOL<br>64-17-5                              | -   | TWA: 1000 ppm   | Skin<br>STEL: 1900 mg/m <sup>3</sup><br>TWA: 260 mg/m <sup>3</sup>                             | TWA: 1000 ppm TWA:<br>1900 mg/m <sup>3</sup><br>STEL: 1300 ppm<br>STEL: 2500 mg/m <sup>3</sup>        | TWA: 1000 ppm TWA:<br>1900 mg/m <sup>3</sup>  |
| METHYL N-AMYL KETONE<br>FCC (2-Heptanone)<br>110-43-0 | TWA: 50 ppm TWA:<br>238 mg/m <sup>3</sup><br>STEL: 100 ppm STEL:<br>475 mg/m <sup>3</sup><br>Skin | TWA: 50 ppm   | TWA: 233 mg/m <sup>3</sup>   | TWA: 50 ppm TWA:<br>240 mg/m <sup>3</sup><br>STEL: 75 ppm STEL:<br>360 mg/m <sup>3</sup><br>Skin      | TWA: 50 ppm TWA:<br>238 mg/m <sup>3</sup><br>Skin   |
| Chemical Name   | Austria   | Switzerland   | Poland   | Norway  | Ireland   |
| ETHYL ALCOHOL<br>64-17-5                              | STEL 2000 ppm STEL<br>3800 mg/m <sup>3</sup><br>MAK: 1000 ppm MAK:<br>1900 mg/m <sup>3</sup>      | STEL: 1000 ppm<br>STEL: 1920 mg/m <sup>3</sup><br>MAK: 500 ppm MAK:<br>960 mg/m <sup>3</sup>      | NDS: 1900 mg/m <sup>3</sup>  | TWA: 500 ppm TWA:<br>950 mg/m <sup>3</sup><br>STEL: 625 ppm STEL:<br>1187.5 mg/m <sup>3</sup>         | TWA: 1000 ppm TWA:<br>1900 mg/m <sup>3</sup>  |
| METHYL N-AMYL KETONE<br>FCC (2-Heptanone)<br>110-43-0 | Skin<br>STEL 100 ppm STEL<br>473 mg/m <sup>3</sup><br>TWA: 50 ppm TWA:<br>237 mg/m <sup>3</sup>   | TWA: 50 ppm TWA:<br>235 mg/m <sup>3</sup>   | STEL: 475 mg/m <sup>3</sup><br>TWA: 238 mg/m <sup>3</sup>                                      | TWA: 25 ppm TWA:<br>115 mg/m <sup>3</sup><br>Skin<br>STEL: 37.5 ppm<br>STEL: 143.75 mg/m <sup>3</sup> | TWA: 50 ppm TWA:<br>238 mg/m <sup>3</sup><br>STEL: 100 ppm STEL:<br>475 mg/m <sup>3</sup><br>Skin |

**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** Long sleeved clothing.
- 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** Coconut  
**Color** colorless

| <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                            | 28 °C / 82 °F            | Closed cup               |
| Evaporation rate                       |                          | FCC Method               |
| Flammability (solid, gas)              |                          | No information available |
| Flammability Limits in Air             |                          |                          |
| Upper flammability limit               |                          | No information available |
| lower flammability limit               |                          | 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                 | 0.9371 - 0.9571          | FCC Method               |
| Specific Gravity @ 20C                 | 0.9401 - 0.9601          | FCC Method               |
| Refractive Index                       | 1.3568 - 1.3768          | FCC Method               |
| Water solubility                       |                          | No information available |
| Solubility in other solvents           |                          | No information available |
| Partition coefficient: n-octanol/water |                          | No information available |
| Autoignition temperature               |                          | No information available |
| Decomposition temperature              |                          | No information available |
| Viscosity, kinematic                   |                          | No information available |
| Viscosity, dynamic                     |                          | No information available |
| Explosive properties                   | No information available |                          |
| Oxidizing Properties                   | No information available |                          |

## 9.2. Other information

|                    |                          |
|--------------------|--------------------------|
| Softening point    | No information available |
| Molecular Weight   | No information available |
| VOC Content(%)     | No information available |
| Density VALUE      | No information available |
| Bulk 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.

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | There is no data available for this product. |
| <b>Eye contact</b>  | There is no data available for this product. |
| <b>Skin contact</b> | There is no data available for this product. |
| <b>Ingestion</b>    | There is no data available for this product. |

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 6,215.00 mg/kg

**ATEmix (inhalation-dust/mist)** 66,901.07 mg/l

**Unknown Acute Toxicity**

- 99.475999% of the mixture consists of ingredient(s) of unknown toxicity.
- 44.416999 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 99.475999 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 99.475999 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 99.475999 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 50.390899 % 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 |
| CITRIC ACID   | 3000 mg/kg ( Rat ) |             |                        |

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>                                   | No information available.  |
| <b>Eye damage/irritation</b>                                       | No information available.  |
| <b>Sensitization</b>   | No information available.  |
| <b>Germ Cell Mutagenicity</b>                                      | No information available.  |
| <b>Carcinogenicity</b>   | No information available.  |
| <b>Reproductive toxicity</b>                                       | No information available.  |
| <b>Specific target organ systemic toxicity (single exposure)</b>   | No information available.  |
| <b>Specific target organ systemic toxicity (repeated exposure)</b> | No information available.  |
| <b>Target Organ Effects</b>  | Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system, Skin. |
| <b>Aspiration hazard</b>   | No information available.  |

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Ecotoxicity** Toxic to aquatic life

44% of the mixture consists of component(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 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 |
| METHYL N-AMYL KETONE FCC (2-Heptanone) | -                 | 126 - 137: 96 h Pimephales promelas mg/L LC50 flow-through   | -   |

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

| Chemical Name                          | log Pow |
|--|---------|
| ETHYL ALCOHOL                          | -0.32   |
| 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 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 | Complies |
| ENCS          | Complies |
| IECSC         | Complies |
| KECL          | Complies |
| 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

No information available

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

H302 - Harmful if swallowed

H226 - Flammable liquid and vapor

H332 - Harmful if inhaled

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

#### 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 01-Jul-2019

Reason for revision: Not applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.**

#### WARNING/DISCLAIMER:

Our ingredients have not been tested, nor have they been determined safe, for inhalation or use in any electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes, or other similar devices (collectively "E-Cigarettes") or in any E-Liquids used with E-Cigarettes. By receiving Apex Flavors, Inc ingredients, the recipient confirms that they will not use these ingredients in connection with the manufacture and distribution of E-Cigarettes, E-Liquids or any component thereof. WE DISCLAIM, TO THE FULLEST EXTENT PERMITTED BY LAW, ALL WARRANTIES, EXPRESS OR IMPLIED, and disclaim all liability in connection with the use of our ingredients in connection with E-Cigarettes and E-Liquids. All such risks are assumed by you and the user.

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