# SAFETY DATA SHEET.



Version 1

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

# 1.1. Product identifier

| Number   | 019ICR  |  |  |  |
|--|---|--|--|--|
| Manufacturer   | Apex Flavors, Inc.<br>1371 Brass Mill Rd.<br>Suite A<br>Belcamp, MD 21017<br>(410) 565-6600 |  |  |  |
| Product name<br>Pure substance/mixture   | PINEAPPLE TYPE, NATURAL FLAVOR BLEND<br>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/ 703-527-3887 outside US

# 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

| $\wedge$     |  |
|--------------|--|
| $\checkmark$ |  |

Signal Word Danger

# **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<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 |
|---------------------|-----------|----------|--------------------|----------|--|--|---------------------------------|
| PROPYLENE<br>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)<br>Flam. Liq. 2 (H225)   | No data available               |
| ALLYL CAPROATE      | 204-642-4 | 123-68-2 |                    | <1       | -  | 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               |

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

N/A

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

| Exposure | scenario |  |  |
|----------|----------|--|--|
|----------|----------|--|--|

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 |
|--|
|--|

# 019ICR PINEAPPLE TYPE, NATURAL FLAVOR BLEND

| PROPYLENE GLYCOL<br>57-55-6 | - | STEL: 450 ppm STEL:<br>1422 mg/m <sup>3</sup> STEL: 30<br>mg/m <sup>3</sup><br>TWA: 150 ppm TWA:<br>474 mg/m <sup>3</sup> TWA: 10<br>mg/m <sup>3</sup> |  |  |   |
|-----------------------------|---|--|--|--|---|
| ETHYL ALCOHOL<br>64-17-5    | Т | 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> | MAK: 500 ppm MAK:<br>960 mg/m <sup>3</sup><br>Ceiling / Peak: 1000<br>ppm Ceiling / Peak:<br>1920 mg/m <sup>3</sup><br>Skin<br>TWA: 500 ppm TWA:<br>960 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> | 1900 mg/m <sup>3</sup><br>STEL: 1300 ppm | TWA: 1000 ppm TWA:<br>1900 mg/m <sup>3</sup> |
|                          |       |               |  | STEL: 2500 mg/m <sup>3</sup>             |  |

| Chemical Name               | Austria  | Sweden -<br>Occupational<br>Exposure Limits -<br>TLVs (LLVs) | Switzerland  | Poland                      | Norway  |
|-----------------------------|--|--|--|-----------------------------|---|
| PROPYLENE GLYCOL<br>57-55-6 |  |  |  |                             | TWA: 25 ppm TWA:<br>79 mg/m <sup>3</sup><br>STEL: 37.5 ppm<br>STEL: 118.5 mg/m <sup>3</sup>   |
| 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> | 500 ppm NGV 1000<br>mg/m³ NGV                                | 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> |

| Component          | Ireland   |
|--------------------|---|
| PROPYLENE GLYCOL   | TWA: 150 ppm TWA: 470 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> |
| 57-55-6 ( 50-90% ) |   |
| ETHYL ALCOHOL      | TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>                         |
| 64-17-5(1-5%)      |   |

| 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<br>Eye Protection<br>Hand Protection<br>Skin and body protection<br>Respiratory protection | Tightly fitting safety goggles<br>Protective gloves<br>Long sleeved clothing<br>When workers are facing concentrations above the exposure limit they must use<br>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 state<br>Odor   | liquid<br>pineapple                            |   | Appearance<br>Color  | clear<br>colorless |
|--|--|---|--|--------------------|
| Property<br>pH<br>Melting/freezing poir<br>Boiling point/boiling<br>Flash Point<br>Evaporation rate<br>Flammability (solid,<br>Flammability Limits<br>Upper flammability<br>lower flammability   | range<br>gas)<br>in Air<br>/ limit             | <u>Values</u><br>93 °C / 200 °F                       | Method<br>No information available<br>No information available<br>FCC Method<br>Closed cup<br>FCC Method<br>No information available<br>No information available   |                    |
| Vapor pressure mm<br>Vapor density<br>Relative density<br>Specific Gravity @ 2<br>Specific Gravity @ 2<br>Refractive Index<br>Water solubility<br>Partition coefficient:<br>Autoignition tempera<br>Decomposition temp<br>Viscosity, dynamic | Hg 20°C<br>5C<br>0C<br>n-octanol/wate<br>ature | 1.0208 - 1.0508<br>1.0238 - 1.0538<br>1.3931 - 1.4231 | No information available<br>No information available<br>No information available<br>FCC Method<br>FCC Method<br>FCC Method<br>No information available<br>No information available<br>No information available<br>No information available<br>No information available |                    |
| Explosive properties<br>Oxidizing Properties   |  | No information available<br>No information available  |  |                    |
| 9.2. Other informatio  | <u>n</u>                                       |   |  |                    |
| VOC Content(%)<br>Molecular Weight   |  | 64.8254407318309<br>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 toxicityThere is no data available for this productInhalationThere is no data available for this productEye contactThere is no data available for this productSkin contactThere is no data available for this productIngestionThere is no data available for this productAcute toxicity34.30053% of the mixture consists of ingredient(s) of unknown toxicityThe following values are calculated based on chapter 3.1 of the GHS document (Rev. 1, 2005):Oral12,657.00 mg/kg

| Oral                | 12,657.00 mg/kg |
|---------------------|-----------------|
| Dermal              | 15.281.00 mg/kg |
| 2 of final          |                 |
| hale all the second |                 |
| Inhalation          |                 |
| Mist                | 4.99 mg/l       |
| met                 |                 |

| 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/irritation<br>Eye damage/irritation<br>Sensitization<br>Germ Cell Mutagenicity<br>Carcinogenicity | No information available<br>No information available<br>No information available<br>No information available<br>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<br>aquatic invertebrates |
|------------------|--|---|--|
| PROPYLENE GLYCOL | 19000: 96 h Pseudokirchneriella<br>subcapitata mg/L EC50 | 51600: 96 h Oncorhynchus mykiss<br>mg/L LC50 static 41 - 47: 96 h<br>Oncorhynchus mykiss mL/L LC50<br>static 51400: 96 h Pimephales<br>promelas mg/L LC50 static 710: 96<br>h Pimephales promelas mg/L LC50 |  |

| ETHYL ALCOHOL  | 12.0 - 16.0: 96 h Oncorhy<br>mykiss mL/L LC50 static 10 | 1 0                                    |
|----------------|---|--|
|                | Pimephales promelas mg/<br>static 13400 - 15100: 9      | L LC50 magna mg/L EC50 2: 48 h Daphnia |
|                | Pimephales promelas mg/<br>flow-through                 | 5 5                                    |
| ALLYL CAPROATE | 30: 96 h Carassius auratu<br>LC50                       | s mg/L                                 |

# 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<br>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 Not regulated

IMDG / IMO Not regulated

ICAO/IATA Not 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<br>Hazard Classes |
|------------------|--|
| PROPYLENE GLYCOL | Hazard Class 1   |
| 57-55-6          |  |

| 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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