

SAFETY DATA SHEET.

This safety data sheet complies with the requirements of: OSHA CFR Title 29 CFR 1910.1200

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product Code(s) Product name

917TTB BLUE HAWAIIAN COCKTAIL TYPE, NATURAL FLAVOR BLEND

UN/ID No

Recommended use of the chemical and restrictions on useRecommended UseNo information available.Uses advised againstNo information available

1197

Manufacturer

Apex Flavors, Inc. 1371 Brass Mill Rd. Suite A Belcamp, MD 21017 410-565-6600

Emergency telephone

Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

Danger

| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
|---|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Skin Sensitization | Category 1 |
| Carcinogenicity | Category 1A |
| Flammable liquids | Category 3 |

GHS Label elements, including precautionary statements

Emergency Overview

Hazard Statements Harmful if inhaled Causes serious eye irritation May cause an allergic skin reaction May cause cancer Flammable liquid and vapor



Appearance liquid

Physical state liquid

Aroma No information available

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

Toxic to aquatic life with long lasting effects

Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % | Trade Secret |
|----------------|-----------|----------|--------------|
| ETHYL ALCOHOL | 64-17-5 | 15-20% | * |
| BENZYL ALCOHOL | 100-51-6 | 1-5% | * |
| CITRIC ACID | 77-92-9 | 1-5% | * |
| RUM ETHER | 8030-89-5 | <1 | * |
| LIMONENE | 5989-27-5 | <1 | * |

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.
Consult a physician.Skin contactWash skin with soap and water.InhalationMove to fresh air.IngestionClean mouth with water and drink afterwards plenty of water.Most important symptoms/effects.Tean delayedMain SymptomsHives.Indication of immediate medical att=tion and special treatment needed, if necessaryNote to physiciansTreat symptomatically.

5. FIRE-FIGHTING MEASURES

917TTB BLUE HAWAIIAN COCKTAIL TYPE, NATURAL FLAVOR BLEND

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

Specific hazards arising from the chemical

No information available.

Explosion data Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

| | 6. ACCIDENTAL RELEASE MEASURES | |
|-------------------------------------|---|--|
| Personal precautions, protective eq | uipment and emergency procedures | |
| Personal precautions | Ensure adequate ventilation. | |
| Environmental precautions | | |
| Environmental precautions | Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. | |
| Methods and materials for containn | nent and cleaning up | |
| Methods for containment | Prevent further leakage or spillage if safe to do so. | |
| Methods for cleaning up | Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. | |

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handlingHandle in accordance with good industrial hygiene and safety practice.Conditions for safe storage, including any incompatibilitiesStorage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place.Incompatible productsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Guidelines** exposure limits established by the region specific regulatory bodies. **Chemical Name** ACGIH TLV **OSHA PEL NIOSH IDLH** TWA: 1000 ppm TWA: 1900 ETHYL ALCOHOL STEL: 1000 ppm IDLH: 3300 ppm mg/m³ TWA: 1000 ppm TWA: 1900 64-17-5 (vacated) TWA: 1000 ppm mg/m³ (vacated) TWA: 1900 mg/m³ ETHYL ACETATE TWA: 400 ppm TWA: 1400 IDLH: 2000 ppm TWA: 400 ppm 141-78-6 mg/m³ TWA: 400 ppm TWA: 1400

917TTB BLUE HAWAIIAN COCKTAIL TYPE, NATURAL FLAVOR BLEND

| | | (vacated) TWA: 400 ppm (vacated) TWA: 1400 mg/m ³ | mg/m³ |
|---|-------------------------------|---|--|
| ISOAMYL ALCOHOL 123-51-3 | STEL: 125 ppm TWA: 100 ppm | TWA: 100 ppm TWA: 360 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m ³ (vacated) STEL: 125 ppm (vacated) STEL: 450 mg/m ³ | IDLH: 500 ppm TWA: 100 ppm TWA: 360 mg/m ³ STEL: 125 ppm STEL: 450 mg/m ³ |
| ACETIC ACID 64-19-7 | STEL: 15 ppm TWA: 10 ppm | TWA: 10 ppm TWA: 25 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m ³ | IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m ³ STEL: 15 ppm STEL: 37 mg/m ³ |
| ISOBUTYL ACETATE 110-19-0 | TWA: 150 ppm | TWA: 150 ppm TWA: 700 mg/m ³ (vacated) TWA: 150 ppm (vacated) TWA: 700 mg/m ³ | IDLH: 1300 ppm TWA: 150 ppm TWA: 700 mg/m ³ |
| FURFURAL 98-01-1 | TWA: 2 ppm S* | TWA: 5 ppm TWA: 20 mg/m ³ (vacated) TWA: 2 ppm (vacated) TWA: 8 mg/m ³ (vacated) S* S* | IDLH: 100 ppm |
| ACETALDEHYDE 75-07-0 | Ceiling: 25 ppm | TWA: 200 ppm TWA: 360 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 180 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 270 mg/m ³ | IDLH: 2000 ppm |
| METHYL N-AMYL KETONE FCC (2-Heptanone) 110-43-0 | TWA: 50 ppm | TWA: 100 ppm TWA: 465 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 465 mg/m ³ | IDLH: 800 ppm TWA: 100 ppm TWA: 465 mg/m ³ |

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

| Showers | |
|--|--|
| Eyewash stations Ventilation systems. | |
| | |

Individual protection measures, such as personal protective equipment

Eye/face protection If splashes are likely to occur, wear:.

Skin and body protection Chemical resistant apron.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection must be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

| Physical state |
|----------------|
| Appearance |
| Aroma |
| Color |
| |

Property Hα Melting/freezing point Boiling point/boiling range Flash Point **Evaporation rate** Flammability (solid, gas) Flammability Limits in Air Upper flammability limit lower flammability limit Vapor pressure mm Hg 20°C Vapor density Specific Gravity @ 25C Specific Gravity @ 20C Refractive Index @ 20C Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Autoignition temperature **Decomposition temperature** Viscosity, kinematic Viscosity, dynamic **Explosive properties Oxidizing Properties**

Other information

Softening point Molecular Weight VOC Content(%) Density VALUE Bulk Density VALUE liquid liquid No information available No information available

Values

32 °C / 90 °F No information available No information available

No information available No information available

0.9845 - 1.0045 0.9875 - 1.0075 1.3890 - 1.4190 Practically insoluble

Pr No information available No information available No information available No information available No information available

No information available No information available No information available No information available No information available

Method

No information available FCC Method FCC Method Closed cup No information available No information available No information available

No information available No information available FCC Method FCC Method FCC Method

No information available No information available No information available No information available No information available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

917TTB BLUE HAWAIIAN COCKTAIL TYPE, NATURAL **FLAVOR BLEND**

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| Product Information | Product does not present an acute toxicity hazard based on known information | | | |
|---------------------|--|--|-----------------|--|
| Inhalation | There is no data available | There is no data available for this product. | | |
| Eye contact | There is no data available | 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. | | | |
| Chemical Name | Oral LD50 | Dermal LD50 | LC50 Inhalation | |

| Chemical Name | Oral LD50 | Dermal LD50 | LC50 Inhalation |
|-----------------------------|-------------------|----------------------|---------------------|
| PROPYLENE GLYCOL 57-55-6 | 20000 mg/kg (Rat) | 20800 mg/kg (Rabbit) | - |
| ETHYL ALCOHOL 64-17-5 | 7060 mg/kg (Rat) | - | 124.7 mg/L (Rat)4 h |
| BENZYL ALCOHOL 100-51-6 | 1230 mg/kg (Rat) | 2000 mg/kg (Rabbit) | 8.8 mg/L (Rat)4 h |
| CITRIC ACID 77-92-9 | 3000 mg/kg (Rat) | - | - |

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization **Germ Cell Mutagenicity** No information available.

Carcinogenicity

No information available. This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|--------------------------|-------|---------|-------|------|
| ETHYL ALCOHOL 64-17-5 | A3 | Group 1 | Known | Х |
| | | Group 3 | | |
| 5989-27-5 | | | | |

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present **Reproductive toxicity** No information available. Specific target organ systemic No information available. toxicity (single exposure) Specific target organ systemic No information available. toxicity (repeated exposure)

May cause adverse liver effects. Contains a known or suspected reproductive toxin. **Chronic toxicity Target Organ Effects** Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system, Skin. Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

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

. mg/kg mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

20.26502% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability No information available.

Bioaccumulation

No information available.

| Chemical Name | log Pow |
|----------------|---------|
| ETHYL ALCOHOL | -0.32 |
| 64-17-5 | |
| BENZYL ALCOHOL | 1.1 |
| 100-51-6 | |
| CITRIC ACID | -1.72 |
| 77-92-9 | |

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

| Waste treatment | |
|------------------------|--|
| Waste Disposal Methods | It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. |
| Contaminated packaging | Do not reuse container. |
| US EPA Waste Number | D001 U001 U112 U125 |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| ETHYL ALCOHOL | Toxic Ignitable |
| 64-17-5 | |
| LIMONENE | Toxic |
| 5989-27-5 | |

14. TRANSPORT INFORMATION

DOT/ADR

| 1197 EXTRACTS, FLAVOURING, LIQUID 3 III |
|--|
| 127 |
| |

| ICAO/IATA UN/ID No Proper shipping name Hazard class Packing Group ERG Code | 1197 EXTRACTS, FLAVOURING, LIQUID 3 III 127 |
|--|---|
| IMDG / IMO UN/ID No Proper shipping name Hazard class Packing Group | 1197 EXTRACTS, FLAVOURING, LIQUID 3 III |

15. REGULATORY INFORMATION

| International Inventories | |
|---------------------------|---|
| TSCA | - |
| DSL/NDSL | - |
| EINECS/ELINCS | - |
| ENCS | - |
| IECSC | - |
| KECL | - |
| PICCS | - |
| AICS | - |

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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| Acute Health Hazard | no |
|-----------------------------------|-----|
| Chronic Health Hazard | no |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical Name | California Prop. 65 |
|-------------------------|---------------------|
| ETHYL ALCOHOL - 64-17-5 | Carcinogen |
| ACETALDEHYDE - 75-07-0 | Carcinogen |
| MYRCENE - 123-35-3 | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|------------------|------------|---------------|--------------|
| PROPYLENE GLYCOL | Х | | Х |
| 57-55-6 | | | |
| ETHYL ALCOHOL | Х | X | Х |
| 64-17-5 | | | |
| ETHYL ACETATE | Х | X | Х |
| 141-78-6 | | | |
| ETHYL BUTYRATE | Х | X | Х |
| 105-54-4 | | | |
| ETHYL PROPIONATE | X | X | Х |
| 105-37-3 | | | |
| BENZALDEHYDE | X | X | Х |
| 100-52-7 | | | |

U.S. EPA Label information

| 16. OTHER INFORMATION | | | | |
|-----------------------|-----------------|----------------|-------------------|---------------------------------|
| NFPA | Health Hazard 2 | Flammability 3 | Instability 0 | Physical and chemical hazards * |
| HMIS | Health Hazard 2 | Flammability 3 | Physical Hazard 0 | Personal protection B |

| Revision Date | 28-Jan-2021 |
|---------------|--------------------------|
| Revision Note | No information available |
| | |

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Revision#

WARNING/DISCLAIMER:

The ingredients/flavors provided by Trilogy have not been tested, nor have they been deemed safe, for inhalation or use in electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes or other similar devices (collectively "E-Cigarettes"). In supplying ingredients/flavors, Trilogy instructs, and by receiving such ingredients/flavors recipient confirms, that the ingredients/flavors will not be used in connection with the manufacture and distribution of E-Cigarettes or any component thereof.

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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