



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) 113TTB
Product name VANILLA SPICE BLEND FOR SPIRITS, NATURAL

UN/ID No 1197

Recommended use of the chemical and restrictions on use

Recommended Use No information available.
Uses advised against No information available

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/ Outside US Chemtel 813-248-0585.

2. HAZARDS IDENTIFICATION

Classification


| | |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Skin Sensitization | Category 1 |
| Carcinogenicity | Category 1A |
| Flammable liquids | Category 2 |

GHS Label elements, including precautionary statements

Emergency Overview

Danger

Hazard Statements
 Causes serious eye irritation
 May cause an allergic skin reaction
 May cause cancer
 Highly flammable liquid and vapor



Appearance clear liquid **Physical state** liquid **Aroma** Characteristic of vanilla and other

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 ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

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 | 30-50% | * |
| CINNAMIC ALDEHYDE | 104-55-2 | <1 | * |
| EUGENOL | 97-53-0 | <1 | * |

4. FIRST AID MEASURES**First aid measures for different exposure routes**

| | |
|---------------------|--|
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | Wash skin with soap and water. |
| Inhalation | Move to fresh air. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |

Most important symptoms/effects, acute and delayed

Main Symptoms Hives.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

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

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

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 equipment 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 containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------------|--|---|---|
| ETHYL ALCOHOL 64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³ | IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³ |
| PINENES 80-56-8 | TWA: 20 ppm | - | |
| NERAL 106-26-3 | TWA: 5 ppm inhalable fraction and vapor S* | - | |

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

Engineering 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 | liquid |
| Appearance | clear liquid |
| Aroma | Characteristic of vanilla and other spice notes |
| Color | yellow |

| <u>Property</u> | <u>Values</u> | <u>Method</u> |
|---|--------------------------|--------------------------|
| pH | | No information available |
| Melting/freezing point | | FCC Method |
| Boiling point/boiling range | | FCC Method |
| Flash Point | 22 °C / 72 °F | Closed cup |
| Evaporation rate | No information available | No information available |
| Flammability (solid, gas) | No information available | No information available |
| Flammability Limits in Air | | No information available |
| 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 |
| Specific Gravity @ 25C | 0.9090 - 0.9390 | FCC Method |
| Specific Gravity @ 20C | 0.9120 - 0.9420 | FCC Method |
| Refractive Index @ 20C | 1.3861 - 1.4161 | FCC Method |
| Water solubility | Soluble in water | |
| Solubility in other solvents | | No information available |
| Partition coefficient: n-octanol/water | | No information available |
| Autoignition temperature | No information available | No information available |
| Decomposition temperature | | No information available |
| Viscosity, kinematic | No information available | No information available |
| Viscosity, dynamic | No information available | |
| Explosive properties | No information available | |
| Oxidizing Properties | No information available | |

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 |

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

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 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. |

| 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 |
| CINNAMIC ALDEHYDE 104-55-2 | = 2220 mg/kg (Rat) | = 1260 mg/kg (Rabbit) | - |

Information on toxicological effects

Symptoms No information available.

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

Sensitization No information available.
Germ Cell Mutagenicity No information available.
Carcinogenicity 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 | X |
| EUGENOL 97-53-0 | | Group 3 | | |

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 toxicity (single exposure) No information available.
Specific target organ systemic toxicity (repeated exposure) No information available.
Chronic toxicity May cause adverse liver effects. Contains a known or suspected reproductive toxin.
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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

0.91754% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

| Chemical Name | log Pow |
|-------------------------------|---------|
| ETHYL ALCOHOL 64-17-5 | -0.32 |
| CINNAMIC ALDEHYDE 104-55-2 | 2.22 |

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 U203 |

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 64-17-5 | Toxic Ignitable |

14. TRANSPORT INFORMATION

DOT/ADR

| | |
|-----------------------------|------------------------------|
| UN/ID No | 1197 |
| Proper shipping name | EXTRACTS, FLAVOURING, LIQUID |
| Hazard class | 3 |
| Packing Group | II |
| ERG Code | 127 |

ICAO/IATA

| | |
|-----------------------------|------------------------------|
| UN/ID No | 1197 |
| Proper shipping name | EXTRACTS, FLAVOURING, LIQUID |
| Hazard class | 3 |

Packing Group II

IMDG / IMO

UN/ID No 1197
 Proper shipping name EXTRACTS, FLAVOURING, LIQUID
 Hazard class 3
 Packing Group II

15. REGULATORY INFORMATION

International Inventories

TSCA -
 DSL/NDSL -
 EINECS/ELINCS Complies
 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 |
| SAFROLE - 94-59-7 | Carcinogen |
| MYRCENE - 123-35-3 | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| PROPYLENE GLYCOL 57-55-6 | X | | X |
| ETHYL ALCOHOL 64-17-5 | X | X | X |
| METHYL EUGENOL 93-15-2 | X | | |
| METHYL SALICYLATE 119-36-8 | | | X |

U.S. EPA Label information

16. OTHER INFORMATION

| | | | | |
|-------------|------------------------|-----------------------|--------------------------|--|
| NFPA | Health Hazard 2 | Flammability 4 | Instability 0 | Physical and chemical hazards * |
| HMIS | Health Hazard 2 | Flammability 4 | Physical Hazard 0 | Personal protection B |

Revision Date 31-Mar-2021
Revision Note No information available

Revision# 1

WARNING/DISCLAIMER:

The ingredients/flavors provided by Apex 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, Apex 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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