



SAFETY DATA SHEET.

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 26-Jul-2023

Version 1

1. Identification

Product identifier

Product name Black Tea Extract, Natural (For Alcoholic Beverages)

Other means of identification

Product Code(s) 921TTB

UN/ID No 1197

CAS No NA

FEMA Numbers NA

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Restrictions on use No information available

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

Emergency telephone number

Emergency telephone Chemtrec: 1-800-424-9300 for US/ Outside US Chemtel 813-248-0585.

2. Hazard(s) identification

Classification


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.

Issuing date 26-Jul-2023

| | |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Flammable liquids | Category 3 |

Hazards not otherwise classified (HNOC)
Not applicable

Label elements

| |
|---|
| <p>Danger</p> <p>Hazard statements Causes serious eye irritation Flammable liquid and vapor</p>  <p>Appearance liquid Physical state Liquid Aroma characteristic of black tea</p> |
|---|

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground and bond container and receiving equipment
Use only non-sparking tools
Take action to prevent static discharges
Use explosion-proof electrical/ ventilating / lighting/ .? / equipment

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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

- 56.15 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 73.85 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 82.3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

EC No (EU Index No)
This safety data sheet was created pursuant to the requirements of:

3. Composition/information on ingredients

Substance

| Chemical name | CAS No | Weight-% | Trade secret |
|--------------------|------------|----------|--------------|
| Extractives of tea | 84650-60-2 | 30-50% | * |
| PROPYLENE GLYCOL | 57-55-6 | 20-30% | * |
| ETHYL ALCOHOL | 64-17-5 | 15-20% | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Remove to fresh air. |
| 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. |
| Ingestion | Rinse mouth. |

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

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. |
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
| Specific hazards arising from the chemical | No information available. |
| Explosion data | |
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. Accidental release measures

EC No (EU Index No)
 This safety data sheet was created pursuant to the requirements of:

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

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

8. Exposure controls/personal protection

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|--------------------------|----------------|---|---|
| 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 |

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

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

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9. Physical and chemical properties

| <u>Property</u> | <u>Values</u> | <u>• Method</u> |
|--|-------------------|-----------------|
| pH | No data available | None known |
| Melting/freezing point | No data available | None known |
| Boiling point/boiling range | No data available | None known |
| Flash Point | 25 °C / 77 °F | Closed cup |
| Evaporation rate | No data available | |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limits in Air | None known | |
| Upper flammability limit | No data available | |
| lower flammability limit | No data available | |
| Vapor pressure mm Hg 20°C | No data available | None known |
| Vapor density | No data available | None known |
| Relative density | | |
| Solubility in other solvents | No data available | None known |
| Partition coefficient: n-octanol/water | No data available | None known |
| Autoignition temperature | No data available | |
| Remarks | None known | |
| Decomposition Temperature VALUE | | |
| Remarks | None known | |
| Viscosity, kinematic | No data available | None known |
| Viscosity, dynamic | No data available | None known |

Information on basic physical and chemical properties

| | |
|----------------|-----------------------------|
| Physical state | Liquid |
| Appearance | liquid |
| Color | dark brown |
| Aroma | characteristic of black tea |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>• Method</u> |
|--|-------------------|-----------------|
| pH | No data available | None known |
| Melting/freezing point | No data available | None known |
| Boiling point/boiling range | No data available | None known |
| Flash Point | 25 °C / 77 °F | None known |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limits in Air | | None known |
| Upper flammability limit | No data available | |
| lower flammability limit | No data available | |
| Vapor pressure mm Hg 20°C | No data available | None known |
| Vapor density | No data available | None known |
| Relative density | | None known |
| Water solubility | No data available | None known |
| Solubility in other solvents | No data available | None known |
| Partition coefficient: n-octanol/water | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition Temperature VALUE | | None known |
| Viscosity, kinematic | No data available | None known |
| Viscosity, dynamic | No data available | None known |

Other information

| | |
|----------------------|--------------------------|
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Softening point | No information available |
| Molecular Weight | No information available |
| VOC content | No information available |
| Density VALUE | No information available |

EC No (EU Index No)

This safety data sheet was created pursuant to the requirements of:

| | |
|-------------------------------|----------------------------|
| Bulk Density VALUE | No information available |
| Specific Gravity @ 25C | 0.9492 - 0.9692 FCC Method |
| Specific Gravity @ 20C | 0.9522 - 0.9722 FCC Method |
| Refractive Index @ 20C | 1.3592 - 1.3792 FCC Method |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | No information available. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Conditions to Avoid | None known based on information supplied. |
| 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

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. |
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|---------------------------|
| Symptoms | No information available. |
|-----------------|---------------------------|

Acute toxicity

Numerical measures of toxicity

No information available

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

| | |
|--------------------------------------|-----------------|
| ATEmix (oral) | 11,495.40 mg/kg |
| ATEmix (dermal) | 20,800.00 mg/kg |
| ATEmix (inhalation-dust/mist) | 66,194.40 mg/l |

56.15 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 73.85 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 82.3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------|---------------------|------------------------|------------------------|
| 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 |

EC No (EU Index No)

This safety data sheet was created pursuant to the requirements of:

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--------------------------|-------|---------|-------|------|
| ETHYL ALCOHOL 64-17-5 | A3 | Group 1 | Known | X |

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ effects Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system, Skin.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|-----------------------------|---|---|-----------------------------|--|
| PROPYLENE GLYCOL 57-55-6 | 19000: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 | - | 10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static |
| ETHYL ALCOHOL 64-17-5 | - | 12.0 - 16.0: 96 h Oncorhynchus mykiss | EC50 = 34634 mg/L 30 min | 9268 - 14221: 48 h Daphnia magna mg/L |

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| | | | | |
|--|--|--|-------------------------|---|
| | | mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through | EC50 = 35470 mg/L 5 min | LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static |
|--|--|--|-------------------------|---|

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

| Chemical name | Partition coefficient |
|--------------------------|-----------------------|
| ETHYL ALCOHOL 64-17-5 | -0.32 |

Other adverse effects No information available.

13. Disposal considerations

Waste treatment

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

US EPA Waste Number D001.

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

14. Transport information

DOT/ADR

UN/ID No 1197
 Proper shipping name EXTRACTS, FLAVOURING, LIQUID
 Transport hazard class(es) 3
 Packing Group III
 Emergency Response Guide Number 127

ICAO/IATA

UN number or ID number 1197
 Proper shipping name EXTRACTS, LIQUID
 Transport hazard class(es) 3
 Packing group III
 ERG Code 127

IMDG / IMO

UN number or ID number 1197
 Proper shipping name EXTRACTS, FLAVOURING, LIQUID
 Transport hazard class(es) 3
 Packing Group III

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 This safety data sheet was created pursuant to the requirements of:

15. Regulatory information

International Inventories

| | |
|----------------------|----------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | - |
| IECSC | Complies |
| KECL | - |
| PICCS | Complies |
| AIIC | 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
- AIIC** - Australian Inventory of Industrial Chemicals
- NZIoC** - New Zealand Inventory of Chemicals

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (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.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical name | California Proposition 65 |
|-------------------------|---------------------------|
| ETHYL ALCOHOL - 64-17-5 | Carcinogen |

U.S. State Right-to-Know Regulations

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This product does not contain any substances regulated under applicable 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 |

U.S. EPA Label information

EPA Pesticide Registration Number Not applicable

16. Other information

| | | | | |
|--------------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <u>NFPA</u> | Health hazards 2 | Flammability 3 | Instability 0 | Special hazards - |
| <u>HMIS</u> | Health hazards 2 | Flammability 3 | Physical hazards 0 | Personal protection X |

Abbreviations, acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|----------|-----------------------|-------|---------------------------|
| TWA: | Time weighted average | STEL: | Short term exposure limit |
| Ceiling: | Maximum limit value: | * | Skin designation |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

| | |
|----------------------|---------------------------|
| Revision Date | 26-Jul-2023 |
| Revision Note | No information available. |

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. 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

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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.

End of Safety Data Sheet

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