



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 03-Aug-2023

Version 1

1. Identification

Product identifier

Product name APPLE JUICE TYPE FLAVOR, NATURAL AND ARTIFICIAL

Other means of identification

Product Code(s) 1369EXPT

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

| | |
|---|------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
|---|------------|

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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| | |
|--------------------|------------|
| Skin sensitization | Category 1 |
| Flammable liquids | Category 4 |

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger

Hazard statements

May cause an allergic skin reaction
May be harmful if inhaled
Combustible liquid



Appearance clear

Physical state Liquid

Aroma Apple juice-like

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
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep cool

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Immediately call a POISON CENTER or doctor/physician
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
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
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 container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

- 16.11265 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 16.11265 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 96.21265 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 96.21265 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 96.21265 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

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No information available.

3. Composition/information on ingredients

Substance

| Chemical name | CAS No. | Weight-% | Trade secret |
|---------------|--------------|----------|--------------|
| Trade Secret | Trade secret | <1 | * |
| ACETIC ACID | 64-19-7 | <1 | * |
| Trade Secret | Trade secret | <1 | * |

*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.

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6. Accidental release measures

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 |
|------------------------|-----------------------------|--|--|
| 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 |
| Trade Secret | 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 |

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

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exceeded or irritation is experienced, ventilation and evacuation may be required.

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

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 | 62 °C / 143 °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 | clear |
| Color | Colorless to pale yellow |
| Aroma | Apple juice-like |
| 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 | 62 °C / 143 °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

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to the requirements of:

| | |
|-------------------------------|----------------------------|
| 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 |
| Bulk Density VALUE | No information available |
| Specific Gravity @ 25C | 0.9920 - 1.1020 FCC Method |
| Specific Gravity @ 20C | 0.995 - 1.105 FCC Method |
| Refractive Index @ 20C | 1.4104 - 1.4304 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) | 16,760.70 mg/kg |
| ATEmix (dermal) | 15,436.70 mg/kg |
| ATEmix (inhalation-vapor) | 113.60 mg/l |
| ATEmix (inhalation-dust/mist) | 0.189 mg/l |

16.11265 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
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| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------|--------------------|-----------------------|-----------------------|
| Trade Secret | 780 mg/kg (Rat) | 600 mg/kg (Rabbit) | - |
| ACETIC ACID 64-19-7 | 3310 mg/kg (Rat) | 1060 mg/kg (Rabbit) | 11.4 mg/L (Rat) 4 h |
| Trade Secret | 50 mg/kg (Rat) | - | - |

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 |
|---------------|-------|---------|-----|------|
| Trade Secret | A3 | Group 3 | - | - |

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

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 |
|------------------------|----------------------|--|---|--|
| ACETIC ACID 64-19-7 | - | 75: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Pimephales promelas mg/L LC50 static | EC50 = 8.8 mg/L 15 min EC50 = 8.8 mg/L 25 min EC50 = 8.8 mg/L 5 min | 47: 24 h Daphnia magna mg/L EC50 65: 48 h Daphnia magna mg/L EC50 Static |
| Trade Secret | - | 13.4-19.3: 96 h | - | 29: 24 h Daphnia magna |

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| | | | | |
|--|--|---|--|-----------|
| | | Pimephales promelas mg/L LC50 static 16.79-26.35: 96 h Pimephales promelas mg/L LC50 flow-through | | mg/L EC50 |
|--|--|---|--|-----------|

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

| Chemical name | Partition coefficient |
|------------------------|-----------------------|
| ACETIC ACID 64-19-7 | -0.31 |
| Trade Secret | 0.67 |

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 U112 U125

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 Not regulated

ICAO/IATA Not regulated

IMDG / IMO Not regulated

15. Regulatory information

International Inventories

TSCA -

DSL/NDSL -

EINECS/ELINCS -

ENCS -

IECSC -

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

KECL -
PICCS -
AIIC -

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).

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| ACETIC ACID 64-19-7 | 5000 lb | - | - | X |
| Trade Secret | 5000 lb | - | - | X |

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.

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ) |
|------------------------|--------------------------|------------------------------------|--|
| ACETIC ACID 64-19-7 | 5000 lb | - | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| Trade Secret | 5000 lb | - | RQ 5000 lb final RQ RQ 2270 kg final RQ |

US State Regulations

California Proposition 65

This product is not, to the best of our knowledge, subject to the labeling requirements under California Proposition 65

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|------------------|------------|---------------|--------------|
| PROPYLENE GLYCOL | X | - | X |

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| | | | |
|------------------------|---|---|---|
| 57-55-6 | | | |
| ACETIC ACID 64-19-7 | X | X | X |
| Trade Secret | X | X | X |
| Trade Secret | X | X | X |
| Trade Secret | X | X | X |
| Trade Secret | X | X | X |
| Trade Secret | X | X | X |
| Trade Secret | - | - | X |
| Trade Secret | X | X | X |

U.S. EPA Label information

EPA Pesticide Registration Number Not applicable

16. Other information

| | | | | |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| NFPA | Health hazards 0 | Flammability 2 | Instability 0 | Special hazards - |
| HMIS | Health hazards 0 | Flammability 2 | 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 | 03-Aug-2023 |
| Revision Note | No information available. |

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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 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