## APEX FLAVORS, INC.

## SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision date 21-Oct-2025 Revision Number 1

## 1. Identification

**Product identifier** 

Product Name Banana Type, Natural & Artificial (Contains <0.10% Artificial Top Note)

Other means of identification

Product Code(s) SC-ITEM 049TTB

UN number or ID number UN1197

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Alcoholic Beverage Flavor

Restrictions on use No information available

Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Apex Flavors, Inc. 1361 Brass Mill Rd Suite E Belcamp, MD 21017-1239 United States (410) 565-6600

E-mail address sds@apexflavors.com

Emergency telephone number

**Company Phone Number** 410-565-6600

Emergency Telephone Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

## Classification

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 1 Category 3
Specific target organ toxicity (repeated exposure)	Category 1

## Label elements



#### **Danger**

#### **Hazard statements**

Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause cancer.

May cause damage to organs.

May cause damage to organs through prolonged or repeated exposure.

May cause drowsiness or dizziness.

## **Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing, eye protection and face protection.

Wash face, hands and any exposed skin thoroughly after handling.

Do not breathe dust.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label).

IF exposed: Call a POISON CENTER or doctor.

#### Eyes

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 and attention.

#### Skin

IF ON SKIN: Wash with plenty of water and soap.

If skin irritation occurs: Get medical advice and attention.

Take off contaminated clothing and wash it before reuse.

### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor if you feel unwell.

#### **Precautionary Statements - Storage**

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

## **Precautionary Statements - Disposal**

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

#### Other information

Toxic to aquatic life with long lasting effects.

## 3. Composition/information on ingredients

#### **Substance**

Not applicable.

### Mixture

Chemical name	CAS No.	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
PROPYLENE GLYCOL	57-55-6	40.00 - 60.00	-	-
ETHYL ALCOHOL	64-17-5	20.00 - 40.00	-	-
ISO AMYL ACETATE (NATURAL)	123-92-2	<5.00	-	-

## 4. First-aid measures

**Description of first aid measures** 

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

**Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical

attention if irritation develops and persists.

**Skin contact** If symptoms persist, call a physician. Wash off immediately with soap and plenty of water for

at least 15 minutes.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

Effects of Exposure May cause cancer. May cause damage to organs. May cause damage to organs through

prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

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

## Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other information** Refer to protective measures listed in Sections 7 and 8.

## 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. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient

ventilation, wear suitable respiratory equipment.

## Conditions for safe storage, including any incompatibilities

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

## 8. Exposure controls/personal protection

# Control parameters Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
ETHYL ALCOHOL	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900	IDLH: 3300 ppm
64-17-5		mg/m³	TWA: 1000 ppm TWA: 1900
		(vacated) TWA: 1000 ppm	mg/m³
		(vacated) TWA: 1900 mg/m <sup>3</sup>	
ISO AMYL ACETATE (NATURAL)	STEL: 100 ppm	TWA: 100 ppm TWA: 525	IDLH: 1000 ppm
123-92-2	TWA: 50 ppm	mg/m³	TWA: 100 ppm TWA: 525
		(vacated) TWA: 100 ppm	mg/m³
		(vacated) TWA: 525 mg/m <sup>3</sup>	-

Chemical name	Alberta	British Columbia	Ontario	Quebec
PROPYLENE GLYCOL	-	-	TWA: 10 mg/m <sup>3</sup> TWA:	-
57-55-6			50 ppm TWA: 155	

			mg/m³	
ETHYL ALCOHOL	TWA: 1000 ppm TWA:	STEL: 1000 ppm	STEL: 1000 ppm	TWA: 1000 ppm TWA:
64-17-5	1880 mg/m <sup>3</sup>			1880 mg/m <sup>3</sup>
ISO AMYL ACETATE	TWA: 50 ppm TWA: 266	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm TWA: 266
(NATURAL)	mg/m³	STEL: 100 ppm	STEL: 100 ppm	mg/m³
123-92-2	STEL: 100 ppm STEL:			STEL: 100 ppm STEL:
	532 mg/m <sup>3</sup>			532 mg/m <sup>3</sup>

## Appropriate engineering controls

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

If splashes are likely to occur, wear safety glasses with side-shields. Eye/face protection

Wear suitable gloves. Impervious gloves. **Hand protection** 

Wear suitable protective clothing. Long sleeved clothing. Skin and body protection

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

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

Do not eat, drink or smoke when using this product. Wash hands before breaks and **General hygiene considerations** 

immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid

contact with skin, eyes or clothing.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid **Appearance** Liquid

Color Colorless to straw colored

Odor Banana

Odor threshold No information available

Remarks • Method **Property** Values

No data available None known None known Melting point / freezing point No data available Initial boiling point and boiling rangeNo data available None known Flash point 42 C. 107 F. None known No data available **Evaporation rate** None known **Flammability** No data available None known None known

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available None known Vapor pressure Relative vapor density No data available None known

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1.0034 - 1.0204 None known Relative density Soluble in water None known Water solubility Solubility(ies) No data available None known Partition coefficient No data available None known **Autoignition temperature** No data available None known No data available None known **Decomposition temperature** Kinematic viscosity No data available None known Dynamic viscosity No data available None known

Other information

No information available **Explosive properties Oxidizing properties** No information available No information available Softening point Molecular weight No information available **VOC** content No information available **Liquid Density** No information available **Bulk density** No information available Specific Gravity @ 25C 1.0004 - 1.0204 1.0034 - 1.0234 Specific Gravity @ 20C Refractive Index @ 20C 1.3943 - 1.4143

## 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 Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

## Information on likely routes of exposure

## **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness or dizziness.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

Acute toxicity

## **Numerical measures of toxicity**

The following ATE values have been calculated for the mixture

 ATEmix (oral)
 17,016.90 mg/kg

 ATEmix (dermal)
 23,832.60 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

 ATEmix (inhalation-dust/mist)
 128,251.70 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
PROPYLENE GLYCOL	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	-
57-55-6	,		
ETHYL ALCOHOL	7060 mg/kg (Rat)	-	124.7 mg/L (Rat) 4 h
64-17-5			
ISO AMYL ACETATE (NATURAL)	16600 mg/kg (Rat)	5 g/kg (Rabbit)	-
123-92-2			

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

	Chemical name	ACGIH	IARC	NTP	OSHA
	ETHYL ALCOHOL 64-17-5	A3	Group 1	Known	X
- 1	04-17-3				

## Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

Occupational Safety and Health Administration of the US Department of Labor

X - Present

**Reproductive toxicity** No information available.

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). May

cause drowsiness or dizziness. May cause damage to organs.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

## 12. Ecological information

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
PROPYLENE GLYCOL	19000: 96 h	51600: 96 h	-	10000: 24 h Daphnia
57-55-6	Pseudokirchneriella	Oncorhynchus mykiss		magna mg/L EC50
	subcapitata mg/L EC50	mg/L LC50 static 41 -		1000: 48 h Daphnia
		47: 96 h Oncorhynchus		magna mg/L EC50
		mykiss mL/L LC50 static		Static
		51400: 96 h Pimephales		
		promelas mg/L LC50		
		static 710: 96 h		
		Pimephales promelas		
		mg/L LC50		
ETHYL ALCOHOL	-	12.0 - 16.0: 96 h	EC50 = 34634 mg/L 30	9268 - 14221: 48 h
64-17-5		Oncorhynchus mykiss	min	Daphnia magna mg/L
		mL/L LC50 static 100:	EC50 = 35470 mg/L 5	LC50 10800: 24 h
		96 h Pimephales	min	Daphnia magna mg/L
		promelas mg/L LC50		EC50 2: 48 h Daphnia
		static 13400 - 15100: 96		magna mg/L EC50
		h Pimephales promelas		Static
		mg/L LC50 flow-through		

Persistence and degradability

No information available.

## **Bioaccumulative potential**

**Component Information** 

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

Other adverse effects No information available.

## 13. Disposal considerations

**Disposal methods** 

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.

California waste information

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

a hazardous waste.

## 14. Transport information

DOT

**UN number or ID number** UN1197

Proper shipping name EXTRACTS, LIQUID

Transport hazard class(es) 3
Packing group III
DOT Marine Pollutant I

**Description** UN1197, EXTRACTS, LIQUID, 3, III, Marine pollutant

Special Provisions B1, IB3, T2, TP1

**Emergency Response Guide** 127

Number

**TDG** 

Notes No components found suitable for Marine Pollutant Name.

**UN number or ID number** UN1197

UN proper shipping name EXTRACTS, FLAVOURING, LIQUID

Transport hazard class(es) 3
Packing group | |||

**Description** UN1197, EXTRACTS, FLAVOURING, LIQUID, 3, III

**MEX** 

UN number or ID number UN1197

UN proper shipping name EXTRACTS, LIQUID

Transport hazard class(es) 3
Packing group | |||

**Description** UN1197, EXTRACTS, LIQUID, 3, III

Special Provisions 223

ICAO (air)

UN number or ID number UN1197

UN proper shipping name EXTRACTS, LIQUID

Transport hazard class(es) 3
Packing group III

**Description** UN1197, EXTRACTS, LIQUID, 3, III

Special Provisions A3

IATA

UN number or ID number UN1197

UN proper shipping name EXTRACTS, LIQUID

Transport hazard class(es) 3
Packing group III
ERG Code 3L
Special Provisions A3

**Description** UN1197, EXTRACTS, LIQUID, 3, III

IMDG Regulated
UN number or ID number UN1197

UN proper shipping name EXTRACTS, LIQUID

Transport hazard class(es) 3
Packing group III
EmS-No. F-E, S-D
Special Provisions 223, 955

Marine pollutant P

**Description** UN1197, EXTRACTS, LIQUID, 3, III, (0°C C.C.), Marine pollutant

## 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

## **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories** 

TSCA Contact supplier for inventory compliance status.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
PROPYLENE GLYCOL	57-55-6	-	Unknown *
ETHYL ALCOHOL	64-17-5	-	Unknown *
Water	7732-18-5	Present	Active
ISO AMYL ACETATE (NATURAL)	123-92-2	-	Unknown *
ETHYL ACETATE	141-78-6	-	Unknown *

<sup>\*</sup>Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

**DSL/NDSL** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **EINECS/ELINCS ENCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. **KECL** Contact supplier for inventory compliance status. **PICCS** AIIC Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **NZIoC** 

#### 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

#### **US 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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and

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40 CFR 122.42).

Che	mical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority	CWA - Hazardous
		Quantities		Pollutants	Substances
ISO AM	MYL ACETATE	-	-	-	Х
(N	ATURAL)				
	123-92-2				

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
ISO AMYL ACETATE (NATURAL) 123-92-2	5000 lb	1	RQ 5000 lb final RQ RQ 2270 kg final RQ

## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals: Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage

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

## **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL	X	-	X
57-55-6			
ETHYL ALCOHOL	X	X	X
64-17-5			
Water	-	-	X
7732-18-5			
ISO AMYL ACETATE (NATURAL)	X	X	X
123-92-2			
ETHYL ACETATE	X	X	X
141-78-6			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA Health hazards 3 Flammability 0 Instability 0 Special hazards - Health hazards \* 3 Flammability 0 Physical hazards 0 Personal protection X

## Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

+ Sensitizers

## 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)

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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)

U.S. 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 21-Oct-2025

**Revision Note**No information available.

**Disclaimer** 

## **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 on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**