APEX FLAVORS, INC.

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) 037, 037TTB

Product name PAWPAW TYPE FLAVOR, NATURAL & ARTIFICIAL

UN/ID No 1197

Recommended use of the chemical and restrictions on use
Recommended Use
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/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 1A
Flammable liquids	Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Danger

Hazard Statements

Harmful if inhaled 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

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

- Harmful to aquatic life with long lasting effects
- · Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
ETHYL ALCOHOL	64-17-5	1-5%	*
VANILLIN	121-33-5	1-5%	*
BENZYL ALCOHOL	100-51-6	<1	*

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice If symptoms persist, call a physician.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Skin contact Immediate medical attention is not required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. If skin irritation persists, call a

physician.

Inhalation Immediate medical attention is not required. If symptoms persist, call a physician. Move to

fresh air in case of accidental inhalation of vapors or decomposition products.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Call a physician. Do NOT induce vomiting.

Self-protection of the first aiderUse personal protective equipment.

Most important symptoms/effects, acute and delayed

Main Symptoms Hives.

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

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use. Dry chemical. Carbon dioxide CO₂. Water spray. Alcohol-resistant foam.

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

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

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 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Remove all sources of ignition. Pay attention to flashback. Take precautionary measures

against static discharges. Use personal protective equipment.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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 Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors

by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep

in properly labeled containers.

Incompatible productsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure GuidelinesThis 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	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 ³	
ISOAMYL ACETATE	STEL: 100 ppm	TWA: 100 ppm	IDLH: 1000 ppm
123-92-2	TWA: 50 ppm	TWA: 525 mg/m ³	TWA: 100 ppm
		(vacated) TWA: 100 ppm	TWA: 525 mg/m ³
		(vacated) TWA: 525 mg/m ³	
ETHYL ACETATE	TWA: 400 ppm	TWA: 400 ppm TWA: 1400	IDLH: 2000 ppm
141-78-6		mg/m³	TWA: 400 ppm TWA: 1400
		(vacated) TWA: 400 ppm	mg/m³
		(vacated) TWA: 1400 mg/m ³	_
ISOBUTYL ACETATE	TWA: 150 ppm	TWA: 150 ppm	IDLH: 1300 ppm
110-19-0		TWA: 700 mg/m ³	TWA: 150 ppm
		(vacated) TWA: 150 ppm	TWA: 700 mg/m ³
		(vacated) TWA: 700 mg/m ³	-
ACETIC ACID	STEL: 15 ppm	TWA: 10 ppm TWA: 25 mg/m ³	IDLH: 50 ppm
64-19-7	TWA: 10 ppm	(vacated) TWA: 10 ppm (vacated)	TWA: 10 ppm TWA: 25 mg/m ³
		TWA: 25 mg/m ³	STEL: 15 ppm STEL: 37 mg/m ³
ISOAMYL ALCOHOL	STEL: 125 ppm	TWA: 100 ppm TWA: 360 mg/m ³	IDLH: 500 ppm
123-51-3	TWA: 100 ppm	(vacated) TWA: 100 ppm	TWA: 100 ppm TWA: 360 mg/m ³
		(vacated) TWA: 360 mg/m ³	STEL: 125 ppm STEL: 450
		(vacated) STEL: 125 ppm	mg/m³
		(vacated) STEL: 450 mg/m ³	
Trade Secret	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m ³	IDLH: 800 ppm
		(vacated) TWA: 100 ppm	TWA: 100 ppm TWA: 465 mg/m ³
		(vacated) TWA: 465 mg/m ³	
ACETYL PROPIONYL FCC (2,3	STEL: 31 ppb	-	IDLH: TWA: 9.3 ppb
PENTANEDIONE)			
600-14-6			
PINENES	TWA: 20 ppm	-	
80-56-8			
BENZYL ACETATE	TWA: 10 ppm	-	
140-11-4			
DIMETHYL SULFIDE	TWA: 10 ppm	-	
75-18-3			

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

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly fitting safety goggles.

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 When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state liquid Appearance liquid

Aroma No information available Color No information available

<u>Property</u> <u>Values</u> <u>Method</u>

PH No information available

Melting/freezing pointFCC MethodBoiling point/boiling rangeFCC MethodFlash Point58 °C / 136 °FClosed cup

Evaporation rateNo information availableNo information availableFlammability (solid, gas)No information availableNo information availableFlammability Limits in AirNo information available

Flammability Limits in Air
Upper flammability limit

No information available

lower flammability limit

No information available

Vapor pressure mm Hq 20°C

No information available

Vapor bressure mining 20 0 No information available No information available

 Specific Gravity @ 25C
 1.0034
 - 1.0534
 FCC Method

 Specific Gravity @ 20C
 1.0064
 - 1.0564
 FCC Method

 Refractive Index @ 20C
 1.3948
 - 1.4138
 FCC Method

Refractive Index @ 20C 1.3948 - 1.4138 FCC Method **Water solubility** Practically insoluble

Solubility in other solvents

Partition coefficient: n-octanol/water

No information available
No information available

Autoignition temperature No information available No information available

Decomposition temperatureNo information availableViscosity, kinematicNo information availableNo information availableViscosity, dynamicNo information available

Viscosity, dynamicNo information availableExplosive propertiesNo information availableOxidizing PropertiesNo information available

Other information

Softening point
Molecular Weight
VOC Content(%)
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

Heat, flames and sparks.

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

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 MutagenicityNo information available.
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	A3	Group 1	Known	X
64-17-5		-		

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

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
Specific target organ systemic
toxicity (single exposure)
Specific target organ systemic

No information available. No information available.

No information available.

toxicity (repeated exposure)
Chronic toxicity
Target Organ Effects

May cause adverse liver effects. Contains a known or suspected reproductive toxin. 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

Harmful to aquatic life with long lasting effects

36.548% 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	
VANILLIN	1.23
121-33-5	
BENZYL ALCOHOL	1.1
100-51-6	

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 U112

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	

14. TRANSPORT INFORMATION

DOT/ADRNot regulated (If shipped in NON BULK packaging by ground transport)

UN/ID No 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class3Packing GroupIIIERG Code127

ICAO/IATA

UN/ID No 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3
Packing Group III
ERG Code 127

IMDG / IMO

UN/ID No 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3
Packing Group 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 Yes
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

Γ	MYRCENE - 123-35-3	Carcinogen
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U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL 57-55-6	Х		X
ETHYL ALCOHOL 64-17-5	X	X	X
ISOAMYL ACETATE 123-92-2	Х	X	Х
Trade Secret	Х	X	Х
BUTYRIC ACID 107-92-6	Х	X	Х
DIMETHYL SULFIDE 75-18-3	Х	X	Х
METHYL EUGENOL 93-15-2	Х		

U.S. EPA Label information

TOT OTTILE CHAIN CITION			

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and chemical hazards *

HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal protection B

16 OTHER INFORMATION

Revision Date 01-Jun-2021

Revision Note No information available

Revision# 1

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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