## APEX FLAVORS, INC.

## SAFETY DATA SHEET.



This safety data sheet complies with the requirements of: OSHA CFR Title 29 CFR 1910.1200

Version 1.01

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

**Product Code(s)** 238, 238TTB, 238BEV

Product name PLUM TYPE, NATURAL FLAVOR BLEND

**UN/ID No** 1993

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
Serious eye damage/eye irritation	Category 2A
Skin Sensitization	Category 1
Carcinogenicity	Category 1A
Flammable liquids	Category 3

# GHS Label elements, including precautionary statements

#### **Emergency Overview**

#### Danger

#### **Hazard Statements**

Harmful if inhaled
Causes serious eye irritation
May cause an allergic skin reaction
May cause cancer
Flammable liquid and vapor



## 238, 238TTB, 238BEV PLUM TYPE, NATURAL FLAVOR BLEND

Appearance clear Physical state liquid Aroma Characteristic of plum. fruity

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

Wash contaminated clothing before reuse

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

- 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%	*
ETHYL ACETATE	141-78-6	1-5%	*
BENZYL ALCOHOL	100-51-6	1-5%	*
LIMONENE	5989-27-5	<1	*

## 4. FIRST AID MEASURES

## First aid measures for different exposure routes

General advice Immediate medical attention is required. Show this material safety data sheet to the doctor

in attendance.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash off immediately with plenty of water.

**Inhalation** Move to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Self-protection of the first aider** Remove all sources of ignition.

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

#### 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

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 Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate

ventilation.

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 (e.g. sand, silica gel, acid binder, universal

binder, sawdust). Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of

ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge,

all metal parts of the equipment must be grounded.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

**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/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
ETHYL ACETATE 141-78-6	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m³ (vacated) TWA: 400 ppm (vacated) TWA: 1400 mg/m³	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>
ISOAMYL ACETATE 123-92-2	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 525 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m³	IDLH: 1000 ppm TWA: 100 ppm TWA: 525 mg/m³
PINENES 80-56-8	TWA: 20 ppm	-	

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 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.

#### Revision Date 04-Sep-2020

## 9. PHYSICAL AND CHEMICAL PROPERTIES

No information available

No information available

#### Physical and chemical properties

Physical state liquid clear **Appearance** 

Aroma Characteristic of plum. fruity

Color Pale yellow

Method Property Values

No information available На

Melting/freezing point FCC Method Boiling point/boiling range FCC Method

Flash Point 23 °C / 73 °F Closed cup **Evaporation rate** No information available No information available Flammability (solid, gas) No information available No information available No information available

Flammability Limits in Air

Upper flammability limit No information available lower flammability limit No information available

Vapor pressure mm Hg 20°C

Vapor density No information available FCC Method Specific Gravity @ 25C 0.9540 - 0.9740 FCC Method

Specific Gravity @ 20C 0.9570 - 0.9770 Refractive Index @ 20C 1.3800 - 1.4000 FCC Method

Water solubility Soluble Solubility in other solvents

No information available Partition coefficient: n-octanol/water No information available

No information available No information available **Autoignition temperature** 

**Decomposition temperature** No information available

Viscosity, kinematic No information available Viscosity, dynamic No information available **Explosive properties** No information available

**Oxidizing Properties** No information available

Other information

No information available Softening point **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**

Heat, flames and sparks.

#### **Incompatible Materials**

None known based on information supplied.

### **Hazardous Decomposition Products**

Revision Date 04-Sep-2020

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	
ETHYL ACETATE 141-78-6	ETATE 5620 mg/kg (Rat)		-	
BENZYL ALCOHOL 100-51-6	1230 mg/kg (Rat)	2000 mg/kg(Rabbit)	8.8 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

SensitizationNo information available.Germ Cell MutagenicityNo 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		•		
LIMONENE		Group 3		
5989-27-5		·		

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
Specific target organ systemic

No information available. No information available.

toxicity (single exposure)
Specific target organ systemic

No information available.

Specific target organ systemitoxicity (repeated exposure)

Chronic toxicity

**Target Organ Effects** 

May cause adverse liver effects. Contains a known or suspected reproductive toxin. Blood, Central nervous system, Eyes, Kidney, 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**

Toxic to aquatic life with long lasting effects

21.41262% 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	
ETHYL ACETATE	0.6
141-78-6	
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 64-17-5	Toxic Ignitable
ETHYL ACETATE 141-78-6	Toxic Ignitable
LIMONENE 5989-27-5	Toxic

## 14. TRANSPORT INFORMATION

## DOT/ADR

**UN/ID No** 1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (ETHYL ALCOHOL, ETHYL ACETATE)

Hazard class 3
Packing Group III
ERG Code 128

# 238, 238TTB, 238BEV PLUM TYPE, NATURAL FLAVOR BLEND

ICAO/IATA

**UN/ID No** 1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (ETHYL ALCOHOL, ETHYL ACETATE)

Hazard class 3
Packing Group III
ERG Code 128

**IMDG / IMO** 

**UN/ID No** 1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (ETHYL ALCOHOL, ETHYL ACETATE)

Hazard class 3 Packing Group III

## 15. REGULATORY INFORMATION

**International Inventories** 

not determined **TSCA DSL/NDSL** not determined **EINECS/ELINCS** not determined not determined **ENCS** not determined **IECSC** not determined **KECL PICCS** not determined **AICS** not determined

#### 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.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances	RQ
		ROs	

Revision Date 04-Sep-2020

ETHYL ACETATE	5000 lb	RQ 5000 lb final RQ RQ 2270 kg
141-78-6		final RQ

## **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

#### 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			
ETHYL ACETATE	X	X	X
141-78-6			
ISOAMYL ACETATE	X	X	X
123-92-2			
ETHYL BUTYRATE	X	X	X
105-54-4			
PINENES	X	X	X
80-56-8			

#### U.S. EPA Label information

## **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazard 2	Flammability 3	Instability 0	Physical and chemical hazards *
<u>HMIS</u>	Health Hazard 2	Flammability 3	Physical Hazard 0	Personal protection B

Revision Date 04-Sep-2020

Revision Note No information available

Revision# 1.01

## **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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