

# 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) Product name

492, 492TTB, 492BEV HIBISCUS LIME TYPE, NATURAL FLAVOR BLEND

UN/ID No

Recommended use of the chemical and restrictions on useRecommended UseNo information available.Uses advised againstNo information available

1197

Manufacturer

Apex Flavors, Inc. 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**

Skin Sensitization	Category 1
Carcinogenicity	Category 1A
Flammable liquids	Category 3

## GHS Label elements, including precautionary statements

	Emergency Ov	verview		
Danger				
Hazard Statements May cause an allergic skin reaction May cause cancer Flammable liquid and vapor	>			
Appearance liquid	Physical state	liquid	Aroma	No information available
mppearance inquiu	Filysical state	ուզուս	Alonia	TNO INTOINIALION AVAIIADIE

**Precautionary Statements - Response** 

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label) 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 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%	*
LIMONENE	5989-27-5	<1	*
BENZYL ALCOHOL	100-51-6	<1	*
PINENES	80-56-8	<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. 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	Wash off immediately with plenty of water. 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 aider	Remove all sources of ignition. Use personal protective equipment.	
Most important symptoms/effects, acute and delayed		
Main Symptoms	ms Hives.	
Indication of immediate medical attention and special treatment needed, if necessary		
Note to physicians	Treat symptomatically.	
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. Remove all sources of ignition. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. 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 containn	nent and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.			
Methods for cleaning up	Dam up. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material. Take precautionary measures against static discharges.			
7. HANDLING AND STORAGE				
Precautions for safe handling				
Advice on safe handling	To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. 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. Use only in area provided with appropriate exhaust ventilation. 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, includi	ng any incompatibilities			
Storage Conditions	Keep in properly labeled containers. Keep tightly closed in a dry and cool place. Keep			

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

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/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900
		(vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	mg/m <sup>3</sup>
ACETIC ACID 64-19-7	STEL: 15 ppm TWA: 10 ppm	TWA: 10 ppm TWA: 25 mg/m <sup>3</sup> (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m <sup>3</sup>	IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m <sup>3</sup> STEL: 15 ppm STEL: 37 mg/m <sup>3</sup>
PINENES 80-56-8	TWA: 20 ppm		STEL. 15 ppin STEL. 57 mg/m <sup>2</sup>
ISOAMYL ALCOHOL 123-51-3	STEL: 125 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m <sup>3</sup> (vacated) STEL: 125 ppm (vacated) STEL: 450 mg/m <sup>3</sup>	IDLH: 500 ppm TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> STEL: 125 ppm STEL: 450 mg/m <sup>3</sup>
CITRAL 5392-40-5	TWA: 5 ppm inhalable fraction and vapor S*	-	
ACETOPHENONE 98-86-2	TWA: 10 ppm	-	
BENZYL ACETATE 140-11-4	TWA: 10 ppm	-	
ETHYL ACETATE 141-78-6	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 1400 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>
ISOBUTYL ACETATE 110-19-0	TWA: 150 ppm	TWA: 150 ppm TWA: 700 mg/m <sup>3</sup> (vacated) TWA: 150 ppm (vacated) TWA: 700 mg/m <sup>3</sup>	IDLH: 1300 ppm TWA: 150 ppm TWA: 700 mg/m <sup>3</sup>
DIMETHYL SULFIDE 75-18-3	TWA: 10 ppm	-	
BENZONITRILE 100-47-0	-	TWA: 5 mg/m <sup>3</sup> CN (vacated) TWA: 5 mg/m <sup>3</sup> S*	IDLH: 25 mg/m <sup>3</sup> CN

NIOSH IDLH: Immediately Dangerous to Life or Health

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Exposure controls** 

**Other Exposure Guidelines** 

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 Appearance Aroma Color

**Property** pН Melting/freezing point Boiling point/boiling range Flash Point **Evaporation rate** Flammability (solid, gas) Flammability Limits in Air Upper flammability limit lower flammability limit Vapor pressure mm Hg 20°C Vapor density Specific Gravity @ 25C Specific Gravity @ 20C **Refractive Index @ 20C** Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Autoignition temperature **Decomposition temperature** Viscosity, kinematic Viscosity, dynamic **Explosive properties Oxidizing Properties** 

#### **Other information**

Softening point Molecular Weight VOC Content(%) Density VALUE Bulk Density VALUE liquid liquid No information available No information available

#### Values

52 °C / 125 °F No information available No information available

No information available No information available

0.9862 - 1.0062 Not Tested 1.3898 - 1.4098 Soluble

No information available

No information available No information available No information available No information available

No information available No information available No information available No information available No information available

#### Method

No information available FCC Method FCC Method Closed cup No information available No information available No information available

No information available No information available FCC Method FCC Method FCC Method

No information available No information available No information available No information available 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	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			
PINENES	2100 mg/kg (Rat)	5000 mg/kg (Rat)	-
80-56-8			

#### 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 Mutagenicity Carcinogenicity No information available. No information available.

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	Х
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 Carcin NTP (National Toxicology Program)	0 )				
Known - Known Carcinogen					
OSHA (Occupational Safety and Health Administration of the US Department of Labor)					
X - Present					
Reproductive toxicity	No information available.				
Specific target organ systemic No information available.					
oxicity (single exposure)					
Specific target organ systemic	No information available.				

toxicity (repeated exposure)<br/>Chronic toxicity<br/>Target Organ EffectsMay cause adverse liver effects. Contains a known or suspected reproductive toxin.<br/>Blood, Central nervous system, Eyes, Kidney, Liver, Reproductive system, Respiratory<br/>system, Skin.Aspiration hazardNo 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

38.1414% 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	
BENZYL ALCOHOL	1.1
100-51-6	
PINENES	4.1
80-56-8	

## 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 U004 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
LIMONENE 5989-27-5	Toxic

## **14. TRANSPORT INFORMATION**

DOT/ADR	Not regulated (If shipped in NON BULK packaging by ground transport)
UN/ID No	1197
Proper shipping name	EXTRACTS, FLAVOURING, LIQUID
Hazard class	3
Packing Group	
ERG Code	127

ICAO/IATA UN/ID No Proper shipping name

1197 EXTRACTS, FLAVOURING, LIQUID

Hazard class Packing Group ERG Code	3 III 127
IMDG / IMO UN/ID No	1197
Proper shipping name Hazard class	EXTRACTS, FLAVOURING, LIQUID
Packing Group	5 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.

Yes
no
Yes
no
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	

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL	Х		Х
57-55-6			
ETHYL ALCOHOL	Х	X	Х
64-17-5			
PINENES	Х	Х	Х
80-56-8			
ETHYL BUTYRATE	Х	X	Х
105-54-4			
METHYL EUGENOL	Х		
93-15-2			
BENZONITRILE	Х	X	Х
100-47-0			

#### U.S. EPA Label information

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

Revision Date	02-Oct-2020	
Revision Note	No information available	

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**

Revision#

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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