



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

348 STRAWBERRY KIWI 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. 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**

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 Causes serious eye irritation May cause an allergic skin reaction May cause cancer Flammable liquid and vapor			
Appearance liquid	Physical state liquid	Aroma typical of strawberry kiwi	

#### **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 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	10-15%	*
GLYCERINE	56-81-5	5-10%	*
ETHYL BUTYRATE	105-54-4	1-5%	*
MALTOL	118-71-8	1-5%	*
TRANS-2-HEXENAL	6728-26-3	<1	*

# 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

Skin contactWash skin with soap and water.InhalationMove to fresh air.IngestionClean mouth with water and drink afterwards plenty of water.Most important symptoms/effects.Uter and delayedMain SymptomsHives.Indication of immediate medical attrition and special treatment needed, if necessaryNote to physiciansTreat symptomatically.				
Skin contactWash skin with soap and water.InhalationMove to fresh air.IngestionClean mouth with water and drink afterwards plenty of water.Most important symptoms/effects. acute and delayedHives.				
Skin contact       Wash skin with soap and water.         Inhalation       Move to fresh air.         Ingestion       Clean mouth with water and drink afterwards plenty of water.         Most important symptoms/effects, acute and delayed	Indication of immediate medical attention and special treatment needed, if necessary			
Skin contactWash skin with soap and water.InhalationMove to fresh air.IngestionClean mouth with water and drink afterwards plenty of water.				
Skin contact     Wash skin with soap and water.       Inhalation     Move to fresh air.	Most important symptoms/effects, acute and delayed			
Skin contact Wash skin with soap and water.	Clean mouth with water and drink afterwards plenty of water.			
Consult à physician.				
<b>Eye contact</b> Rinse thoroughly with plenty of water for at least 15 minutes, lifting Consult a physician.	lower and upper eyelids.			

# **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	Ensure adequate ventilation.	
Environmental precautions		
Environmental precautions	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	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 containers tightly closed in a dry, cool and well-ventilated place.	
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	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900	IDLH: 3300 ppm
64-17-5		mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900
		(vacated) TWA: 1000 ppm	mg/m³
		(vacated) TWA: 1900 mg/m <sup>3</sup>	
GLYCERINE	-	TWA: 15 mg/m <sup>3</sup> mist, total	
56-81-5		particulate TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate (vacated) TWA: 5	
		mg/m <sup>3</sup> mist, respirable fraction	
ETHYL ACETATE	TWA: 400 ppm	TWA: 400 ppm TWA: 1400	IDLH: 2000 ppm
141-78-6		mg/m <sup>3</sup>	TWA: 400 ppm TWA: 1400

# 348 STRAWBERRY KIWI TYPE, NATURAL FLAVOR BLEND

		(vacated) TWA: 400 ppm (vacated) TWA: 1400 mg/m <sup>3</sup>	mg/m³
ACETALDEHYDE 75-07-0	Ceiling: 25 ppm	TWA: 200 ppm TWA: 360 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 180 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 270 mg/m <sup>3</sup>	IDLH: 2000 ppm
ISOAMYL ACETATE 123-92-2	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 525 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m <sup>3</sup>	IDLH: 1000 ppm TWA: 100 ppm TWA: 525 mg/m <sup>3</sup>
FURFURAL 98-01-1	TWA: 2 ppm S*	TWA: 5 ppm TWA: 20 mg/m <sup>3</sup> (vacated) TWA: 2 ppm (vacated) TWA: 8 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 100 ppm
BENZYL ACETATE 140-11-4	TWA: 10 ppm	-	
DIMETHYL SULFIDE 75-18-3	TWA: 10 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** 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** Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and chemical properties**

Physical state
Appearance
Aroma
Color

Property Hα 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 typical of strawberry kiwi No information available

#### Values

28 °C / 83 °F No information available No information available

No information available No information available

1.0045 - 1.0245 1.0075 - 1.0275 1.4155 - 1.4355 Practically insoluble

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

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

None known based on information supplied.

#### **Hazardous Decomposition Products**

## 348 STRAWBERRY KIWI TYPE, NATURAL FLAVOR **BLEND**

None known based on information supplied.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
Ingestion	There is no data available for this product.		
Skin contact	There is no data available for this product.		
Eye contact	There is no data available for this product.		
Inhalation	There is no data available for this product.		
Product Information	Product does not present an acute toxicity hazard based on known information		

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
GLYCERINE 56-81-5	-	10 g/kg (Rabbit)	570 mg/m³ (Rat)1 h
ETHYL BUTYRATE 105-54-4	13 g/kg (Rat)	2 g/kg (Rabbit)	-

#### 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					
ACGIH (American Conference of Governmental Industrial Hygienists)					
A3 - Animal Carcinogen	A3 - Animal Carcinogen				
IARC (International Age	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)	No information available. No information available.
Specific target organ systemic	No information available.
toxicity (repeated exposure) Chronic toxicity	May cause adverse liver effects. Contains a known or suspected reproductive toxin.
Target Organ Effects	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

Harmful to aquatic life with long lasting effects

0.08713% 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	
GLYCERINE	-1.76
56-81-5	

# 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 U001 U112 U125

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 BUTYRATE 105-54-4	Ignitable

# **14. TRANSPORT INFORMATION**

 DOT/ADR
 1197

 UN/ID No
 1197

 Proper shipping name
 EXTRACTS, FLAVOURING, LIQUID

 Hazard class
 3

 Packing Group
 III

 ERG Code
 127

ICAO/IATA UN/ID No Proper shipping name

1197 EXTRACTS, FLAVOURING, LIQUID

# 348 STRAWBERRY KIWI TYPE, NATURAL FLAVOR BLEND

Hazard class	3
Packing Group	111
ERG Code	127
IMDG / IMO	
UN/ID No	1197
Proper shipping name	EXTRACTS, FLAVOURING, LIQUID
Hazard class	3

Ш

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	-
IECSC	Complies
KECL	-
PICCS	Complies
AICS	Complies

#### Legend:

**Packing Group** 

**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.

# 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
ACETALDEHYDE - 75-07-0	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL 57-55-6	Х		Х
ETHYL ALCOHOL 64-17-5	Х	Х	Х
GLYCERINE 56-81-5	Х	Х	Х
ETHYL BUTYRATE 105-54-4	Х	Х	Х
ETHYL ACETATE 141-78-6	Х	Х	Х
ETHYL BENZOATE 93-89-0			Х

U.S. EPA Label information

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

Revision Date	22-Jul-2020
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.

```
end
```