## APEX FLAVORS, INC.

# SAFETY DATA SHEET.



Version 1

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

Product identifier

Product Code(s) 1348

Product name ORANGE CREAMSICLE TYPE, NATURAL FLAVOR BLEND

**UN/ID No** 1197

Recommended use of the chemical and restrictions on use
Recommended Use
No information available. No
Uses advised against information available

Manufacturer Apex Flavors, Inc.

1361 Brass Mill Rd. Suite E Belcamp, MD 21017 (410) 565-6600

**Emergency telephone** 

Chemtrec: 1-800-424-9300 for US/ Outside US Chemtel 813-248-0585

## 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 clear Physical state liquid Odor creamy orange Vanilla

#### **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

- · Causes mild skin irritation
- · Harmful 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	50-90%	*
LIMONENE	5989-27-5	1-5%	*
ACETALDEHYDE	75-07-0	<1	*

#### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

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

Consult a physician.

**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

Main Symptoms 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 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 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.

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/m³	TWA: 1000 ppm TWA: 1900
		(vacated) TWA: 1000 ppm	mg/m³
		(vacated) TWA: 1900 mg/m <sup>3</sup>	
ACETALDEHYDE	Ceiling: 25 ppm	TWA: 200 ppm TWA: 360 mg/m <sup>3</sup>	IDLH: 2000 ppm
75-07-0		(vacated) TWA: 100 ppm	
		(vacated) TWA: 180 mg/m <sup>3</sup>	
		(vacated) STEL: 150 ppm	
		(vacated) STEL: 270 mg/m <sup>3</sup>	
PINENES	TWA: 20 ppm	-	
80-56-8			

CITRAL	TWA: 5 ppm inhalable fraction	-	
5392-40-5	and vapor		
	S*		

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 should 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 liquid **Appearance** clear

Odor creamy orange Vanilla

yellow Color

**Property** Method Values

No information available рH

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

29 °C / 84 °F Flash Point Closed cup No information available No information available **Evaporation rate** 

Flammability (solid, gas) No information available No information available Flammability Limits in Air No information available

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

Vapor pressure mm Hg 20°C No information available

Vapor density No information available

Specific Gravity @ 25C FCC Method 0.9172 - 0.9372 Specific Gravity @ 20C 0.9202 - 0.9402 FCC Method Refractive Index 1.350 - 1.380 FCC Method

Water solubility Practically insoluble

Partition coefficient: n-octanol/water No information available **Autoignition temperature** No information available No information available

**Decomposition temperature** No information available Viscosity, kinematic No information available No information available

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

Other information

**Oxidizing Properties** 

Solubility in other solvents

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

## 10. STABILITY AND REACTIVITY

No information available

### 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**

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 ALCOHOL 64-17-5	7060 mg/kg (Rat)	-	124.7 mg/L (Rat) 4 h
LIMONENE 5989-27-5	4400 mg/kg (Rat)	2000 mg/kg (Rabbit)	-
ACETALDEHYDE 75-07-0	1930 mg/kg (Rat)	-	-

#### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization**No information available. **Germ Cell Mutagenicity**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				
LIMONENE		Group 3		
5989-27-5		-		
ACETALDEHYDE	A3	Group 1	Reasonably Anticipated	X
75-07-0		Group 2B		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human 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 toxicity (repeated exposure)

Chronic toxicity

No information available. No information available.

No information available.

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

Target Organ Effects 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**

0.19635% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to	Toxicity to daphnia and
			microorganisms	other aquatic invertebrates
ETHYL ALCOHOL		12.0 - 16.0: 96 h	EC50 = 34634 mg/L 30 min	9268 - 14221: 48 h Daphnia
64-17-5		Oncorhynchus mykiss mL/L	EC50 = 35470 mg/L 5 min	magna mg/L LC50 10800:
		LC50 static 100: 96 h		24 h Daphnia magna mg/L
		Pimephales promelas mg/L		EC50 2: 48 h Daphnia
		LC50 static 13400 - 15100:		magna mg/L EC50 Static
		96 h Pimephales promelas		
		mg/L LC50 flow-through		
LIMONENE		0.619-0.796: 96 h		
5989-27-5		Pimephales promelas mg/L		
		LC50 flow-through 35: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50		
ACETALDEHYDE	237 - 249: 120 h Nitzschia	28.0 - 34.0: 96 h Pimephales		3.64 - 6.15: 48 h Daphnia
75-07-0	linearis mg/L EC50	promelas mg/L LC50		magna mg/L EC50 Static
		flow-through 53: 96 h		48.3: 48 h Daphnia magna
		Lepomis macrochirus mg/L		mg/L EC50
		LC50 static 1.8 - 2.4: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 static 39.8 - 46.8: 96 h		
		Pimephales promelas mg/L		
		LC50 static		

## Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

Chemical Name	log Pow
ETHYL ALCOHOL 64-17-5	-0.32
ACETALDEHYDE 75-07-0	0.5

#### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment** 

regulations.

**Contaminated packaging** Do not reuse container.

US EPA Waste Number D001 U001

Door Coor

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
ACETALDEHYDE				U001
75-07-0				

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
ACETALDEHYDE 75-07-0	Toxic Ignitable

## 14. TRANSPORT INFORMATION

DOT

**UN/ID No** 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3
Packing Group III
ERG Code 127

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
ACETALDEHYDE - 75-07-0	75-07-0	0.119016	0.1

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).

Chemica	I Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
ACETALD 75-0	EHYDE 7-0	1000 lb			Х

## 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 RQs	RQ
ACETALDEHYDE 75-07-0	1000 lb		RQ 1000 lb final RQ RQ 454 kg 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	
	Developmental	
ACETALDEHYDE - 75-07-0	Carcinogen	

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ETHYL ALCOHOL	X	X	X
64-17-5			
ETHYL BUTYRATE FCC	X	X	X
105-54-4			
ACETALDEHYDE	X	X	X
75-07-0			

#### U.S. EPA Label information

	16 OTHER INCORN	
	16. OTHER INFORM	

NFPA 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 07-Mar-2016

Revision Note No information available

Revision# 1

## **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**

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