# APEX FLAVORS, INC.

# SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

Number 450BEV

**Manufacturer** Apex Flavors, Inc.

1371 Brass Mill Rd.

Suite A

Belcamp, MD 21017 (410) 565-6600

Product name DRAGON FRUIT TYPE, NATURAL FLAVOR BLEND

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use No information available

1.3. Details of the supplier of the safety data sheet

For further information, please contact:

E-mail Address cpisano@apexflavors.com

1.4. Emergency telephone number

Emergency telephone Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

# 2. HAZARDS IDENTIFICATION

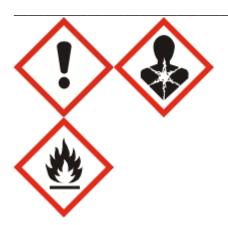
2.1. Classification of the substance or mixture

Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A
Acute aquatic toxicity	Category 2
Flammable liquids	Category 2

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

# 2.2. Label elements



# Signal Word

Danger

# **Hazard Statements**

H319 - Causes serious eye irritation

H350 - May cause cancer

H401 - Toxic to aquatic life

# **Precautionary Statements**

P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical advice/ attention

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

# 2.3. Other information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances

Chemical Name	EC-No	CAS-No	Alternate CAS #	Weight %	Classificatio n according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
ETHYL ALCOHOL	200-578-6	64-17-5		50-90%	F; R11	Flam. Liq. 2 (H225) Flam. Liq. 2 (H225)	No data available
GLYCERINE	Present	56-81-5		15-20%	-	No data available	No data available
ETHYL ACETATE	Present	141-78-6		5-10%	F; R11 Xi; R36 R66 R67	Eye Irrit. 1 (H319) (EFFA) Flam. Liq. 2 (H225) (EFFA) Eye Irrit. 1 (H319) (EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	No data available
ALLYL CAPROATE	204-642-4	123-68-2		<1	-	Aquatic Acute 2 (H401) (EFFA) Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 2 (315) (EFFA) Acute Tox. 3 (H301) (EFFA) Acute Tox. 3 (H311)(EFFA) Flam. Liq. 4 (H227)(EFFA)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

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Revision Date 17-Jun-2016

# 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

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

**Inhalation** Move to fresh air.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically

# 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

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

#### Extinguishing media which shall not be used for safety reasons

No information available

# 5.2. Special hazards arising from the substance or mixture

#### **Special Hazard**

None

#### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear

# **6. ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

See Section 12 for additional Ecological Information

#### 6.2. Environmental precautions

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

#### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

# 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Ensure adequate ventilation.

# 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

# 7.3 Specific end use(s)

Exposure scenario N/A
Other Guidelines N/A

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

**Exposure limits** 

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
ETHYL ALCOHOL 64-17-5	·	STEL: 3000 ppm STEL: 5760 mg/m³ TWA: 1000 ppm TWA: 1920 mg/m³	VME: 1000 ppm VME: 1900 mg/m³ VLCT: 5000 ppm VLCT: 9500 mg/m³	VLA-ED: 1000 ppm VLA-ED: 1910 mg/m <sup>3</sup>	MAK: 500 ppm MAK: 960 mg/m³ Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m³ Skin TWA: 500 ppm TWA:
GLYCERINE		STEL: 30 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	960 mg/m <sup>3</sup> TWA: 50 mg/m <sup>3</sup>
56-81-5		TWA: 10 mg/m <sup>3</sup>	TWA. 10 mg/m	TWA. 10 mg/m	Ceiling / Peak: 100 mg/m³
ETHYL ACETATE 141-78-6		STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 1460 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 1500 mg/m³ Ceiling / Peak: 800 ppm Ceiling / Peak: 3000 mg/m³

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
ETHYL ALCOHOL 64-17-5		TWA: 1000 ppm	Skin STEL: 1900 mg/m³ TWA: 260 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 1300 ppm STEL: 2500 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
GLYCERINE 56-81-5		TWA: 10 mg/m <sup>3</sup>		TWA: 20 mg/m <sup>3</sup>	
ETHYL ACETATE 141-78-6		TWA: 400 ppm		TWA: 300 ppm TWA: 1100 mg/m³ STEL: 500 ppm STEL: 1800 mg/m³	TWA: 150 ppm TWA: 540 mg/m <sup>3</sup>

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
ETHYL ALCOHOL 64-17-5	STEL 2000 ppm STEL 3800 mg/m <sup>3</sup> MAK: 1000 ppm MAK: 1900 mg/m <sup>3</sup>	500 ppm NGV 1000 mg/m³ NGV	STEL: 1000 ppm STEL: 1920 mg/m³ MAK: 500 ppm MAK: 960 mg/m³	NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 950 mg/m <sup>3</sup> STEL: 625 ppm STEL: 1187.5 mg/m <sup>3</sup>
GLYCERINE 56-81-5			STEL: 100 mg/m <sup>3</sup> TWA: 50 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	
ETHYL ACETATE 141-78-6	STEL 600 ppm STEL 2100 mg/m³ TWA: 300 ppm TWA: 1050 mg/m³	150 ppm NGV 500 mg/m³ NGV	STEL: 800 ppm STEL: 2800 mg/m <sup>3</sup> TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>	STEL: 600 mg/m <sup>3</sup> TWA: 200 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 550 mg/m³ STEL: 187.5 ppm STEL: 687.5 mg/m³

Component	Ireland	
ETHYL ALCOHOL	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	
64-17-5 ( 50-90% )		
GLYCERINE	TWA: 10 mg/m <sup>3</sup>	
56-81-5 ( 15-20% )		
ETHYL ACETATE	TWA: 200 ppm	
141-78-6 ( 5-10% )	STEL: 400 ppm	

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration

(PNEC)

No information available

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas

Personal protective equipment

**Eye Protection** Tightly fitting safety goggles

Hand Protection Protective gloves
Skin and body protection Protective gloves
Long sleeved clothing

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure Controls** No information available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Physical state liquid Appearance clear

Odor fruity peach Color Colorless to light yellow.

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

pH No information available

Melting/freezing point

No information available

Boiling point/boiling rangeFCC MethodFlash Point16 °C / 60 °FClosed cup

Evaporation rateFCC MethodFlammability (solid, gas)No information availableFlammability Limits in AirNo information available

Upper flammability limit lower flammability limit

Vapor pressure mm Hg 20°C

No information available
No information available

Vapor densityNo information availableRelative densityNo information availableSpecific Gravity @ 25C0.8723 - 0.9023FCC Method

Specific Gravity @ 25C 0.8723 - 0.9023 FCC Method Specific Gravity @ 20C 0.8753 - 0.9053 FCC Method Refractive Index 1.3685 - 1.3985 FCC Method

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

Decomposition temperature

No information available

No information available

No information available

No information available

**Explosive properties**No information available
Oxidizing Properties
No information available

9.2. Other information

VOC Content(%) 96.7670400906354

Molecular Weight No information available

# 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

#### 10.2. Chemical stability

Stable under normal conditions

#### 10.3. Possibility of hazardous reactions

# 10.4. Conditions to avoid

Heat, flames and sparks

#### 10.5. Incompatible materials

No materials to be especially mentioned

# 10.6. Hazardous decomposition products

None under normal use conditions

# 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

**Acute toxicity** 

**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

Acute toxicity 0.085% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 1, 2005):

 Oral
 7,561.00 mg/kg

 Dermal
 24,245.00 mg/kg

**Inhalation** 

Mist 750.70 mg/l

	Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
ſ	ETHYL ALCOHOL	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h
ſ	GLYCERINE		10 g/kg (Rabbit)	570 mg/m³(Rat)1 h
ſ	ETHYL ACETATE	5620 mg/kg (Rat)	20 mL/kg (Rabbit)	
ſ	ALLYL CAPROATE	218 mg/kg (Rat)	300 mg/kg (Rabbit)	

Skin corrosion/irritation

Eye damage/irritation Sensitization

Germ Cell Mutagenicity

Carcinogenicity

No information available
No information available

No information available No information available No information available

Specific target organ systemic toxicity (single exposure)

No information available

Specific target organ systemic toxicity (repeated exposure)

No information available

toxicity (repeated exposure)

**Target Organ Effects** 

Blood Central nervous system Eyes Kidney Liver Reproductive system Respiratory system

Skin

Aspiration hazard No information available

# 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or not degradable in

waste water treatment plants

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
			aquatic invertebrates

ETHYL ALCOHOL		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
GLYCERINE		flow-through 51 - 57: 96 h Oncorhynchus mykiss	500: 24 h Daphnia magna mg/L
		mL/L LC50 static	EC50
ETHYL ACETATE	3300: 48 h Desmodesmus subspicatus mg/L EC50	220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 352 - 500: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	560: 48 h Daphnia magna mg/L EC50 Static
ALLYL CAPROATE		30: 96 h Carassius auratus mg/L LC50	

# 12.2. Persistence and degradability

No information available

#### 12.3. Bioaccumulative potential

No information available

Chemical Name	log Pow
ETHYL ALCOHOL	-0.32
GLYCERINE	-1.76
ETHYL ACETATE	0.6

# 12.4. Mobility in soil

No information available

#### 12.5. Results of PBT and vPvB assessment

# 12.6. Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal

# 14. TRANSPORT INFORMATION

DOT

IMDG / IMO

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

Hazard class 3 UN/ID No 1993 Packing Group II

ICAO/IATA

**UN/ID No** 1993

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

Revision Date 17-Jun-2016

**Hazard class** 3 **Packing Group** Ш **ERG Code** 127

# 15. REGULATORY INFORMATION

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **WGK Classification**

Chemical Name	Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes
ETHYL ALCOHOL 64-17-5	Hazard Class 1
GLYCERINE 56-81-5	Hazard Class 1
ETHYL ACETATE 141-78-6	Hazard Class 1

#### International Inventories

All of the components in the product are on the following Inventory lists: United States of America (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), China (IECSC), Philippines (PICCS).

**TSCA** Complies **EINECS/ELINCS** Complies **DSL/NDSL** Complies **PICCS** Complies

**ENCS** 

**IECSC** Complies Complies AICS

**KECL** 

# Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

#### 15.2. Chemical safety assessment

# 16. OTHER INFORMATION

#### Full text of H-Statements referred to under sections 2 and 3

H401 - Toxic to aquatic life H319 - Causes serious eye irritation H301 - Toxic if swallowed H311 - Toxic in contact with skin H227 - Combustible liquid H225 - Highly flammable liquid and vapor H336 - May cause drowsiness or dizziness EUH066 - Repeated exposure may cause skin dryness or cracking

**Revision Date** 17-Jun-2016

**Revision Note** Not applicable.

Revision# 1

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **WARNING/DISCLAIMER:**

Apex Flavors, Inc.'s products are sold exclusively for use in food and drink for human consumption. These products have not been tested, nor have they been deemed safe, for inhalation or use in electronic smoking devices, electronic nicotine delivery systems, and electronic cigarettes or similar devices (collectively "E-Cigarettes"). In supplying this product(s), Apex Flavors, Inc. instructs, and purchasing recipient confirms, that this product(s) will not be used in connection with the manufacture and distribution of E-Cigarettes or any component thereof. Recipients of our products that use them outside of their intended use of food or drink do so at their own risk and without warranty, either expressed or implied, from Apex Flavors, Inc. or its suppliers. The user assumes all liability for loss, injury, damage, or expense resulting from such uses.

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