## APEX FLAVORS, INC.

## SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

Number 319

Manufacturer Apex Flavors, Inc.

1371 Brass Mill Rd.

Suite A

Belcamp, MD 21017 (410) 565-6600

Product name MACADAMIA NUT TYPE, NATURAL FLAVOR BLEND - NUT FREE

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

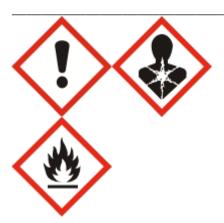
2.1. Classification of the substance or mixture

Acute inhalation toxicity - dust/mist	Category 4
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A
Acute aquatic toxicity	Not classified for acute
Flammable liquids	Category 3

## 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

H332 - Harmful if inhaled

H350 - May cause cancer

H411 - Toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

## **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
PROPYLENE GLYCOL	200-338-0	57-55-6		30-50%	-	No data available	No data available
ETHYL ALCOHOL	Present	64-17-5		30-50%	F; R11	Eye Irrit. 1 (H319) (EFFA) Flam. Liq. 2 (H225) (EFFA) Flam. Liq. 2 (H225)	No data available
BENZYL ALCOHOL	Present	100-51-6		1-5%	Xn; R20/22	Acute Tox. 4 (H302) Eye Irrit. 1 (H319) (EFFA) Acute Tox. 4 (H302) (EFFA) Acute Tox. 5 (H313)(EFFA) Acute Tox. 4 (H332)(EFFA) Eye Irrit. 1 (H319) Acute Tox. 4 (H302) Acute Tox. 5 (H313) Acute Tox. 4 (H332) Acute Tox. 4 (H332)	No data available

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

## 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

Prevent further leakage or spillage if safe to do so.

## 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

Germany

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Ensure adequate ventilation.

## 7.2. Conditions for safe storage, including any incompatibilities

European Union

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

**Chemical Name** 

**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational

The United Kingdom

exposure limits established by the region specific regulatory bodies

France

Spain

TWA: 500 ppm TWA: 960 mg/m³ Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m³ Skin  Denmark TWA: 1000 ppm	
TWA: 960 mg/m³ Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m³ Skin  Denmark	
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Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m³ Skin	
ppm Ceiling / Peak: 1920 mg/m³ Skin	
Ceiling / Peak: 1920 mg/m³ Skin	
mg/m³ Skin	
Skin  Denmark	
Denmark	
TWA: 1000 ppm	
TWA: 1900 mg/m <sup>3</sup>	
Norway	PROP\
	GLY
	57-
	STEL 20
	STEL 380
	TWA: 10
	TWA: 190
<u>≣</u> ⊤	HYL ALCOHOL 64-17-5

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available

(PNEC)

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas

Personal protective equipment

**Eve Protection** Tightly fitting safety goggles

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

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

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 characteristic of macadamia Color colorless

Property Values Method

No information available Hq No information available Melting/freezing point

FCC Method Boiling point/boiling range Flash Point 26 °C / 78 °F Closed cup

**Evaporation rate** FCC Method Flammability (solid, gas)

No information available Flammability Limits in Air No information available Upper flammability limit

lower flammability limit

Vapor pressure mm Hg 20°C No information available Vapor density No information available Relative density No information available

Specific Gravity @ 25C FCC Method 0.9345 - 0.9545 FCC Method 0.9375 - 0.9575

Specific Gravity @ 20C 1.3915 - 1.4115 FCC Method Refractive Index Water solubility No information available

Partition coefficient: n-octanol/water No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, dynamic No information available

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

9.2. Other information

87.2405900908634 VOC Content(%) 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** 

**Product Information** Product does not present an acute toxicity hazard based on known or supplied 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

Acute toxicity 5.19021% 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** 18,465.00 mg/kg **Dermal** 16,681.00 mg/kg

 Mist
 4.81 mg/l

 Vapor
 1,057.00 mg/l

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
PROPYLENE GLYCOL	20000 mg/kg (Rat)	20800 mg/kg ( Rabbit )	
ETHYL ALCOHOL			124.7 mg/L (Rat) 4 h
BENZYL ALCOHOL	1230 mg/kg (Rat)	2 g/kg (Rabbit)	8.8 mg/L (Rat)4 h

Skin corrosion/irritationNo information availableEye damage/irritationNo information availableSensitizationNo information availableGerm Cell MutagenicityNo information availableCarcinogenicityNo information available

Specific target organ systemic toxicity (single exposure)

No information available

Specific target organ systemic toxicity (repeated exposure)

No information available

Target Organ Effects Blood Central nervous system Eyes 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
PROPYLENE GLYCOL	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50	10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static
ETHYL ALCOHOL			9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static
BENZYL ALCOHOL	35: 3 h Anabaena variabilis mg/L EC50	460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static	23: 48 h water flea mg/L EC50

## 12.2. Persistence and degradability

No information available

#### 12.3. Bioaccumulative potential

No information available

Chemical Name	log Pow
ETHYL ALCOHOL	-0.32
BENZYL ALCOHOL	1.1

## 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 EXTRACTS, FLAVOURING, LIQUID

Hazard class 3 UN/ID No 1197

Packing Group

ICAO/IATA

**UN/ID No** 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3
Packing Group III
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
PROPYLENE GLYCOL 57-55-6	Hazard Class 1
ETHYL ALCOHOL 64-17-5	Hazard Class 1
BENZYL ALCOHOL 100-51-6	Hazard Class 1

#### International Inventories

All of the components in the product are on the following Inventory lists: No information available.

TSCA EINECS/ELINCS DSL/NDSL PICCS ENCS IECSC 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

H302 - Harmful if swallowed H319 - Causes serious eye irritation H313 - May be harmful in contact with skin H332 - Harmful if inhaled H225 - Highly flammable liquid and vapor

Revision Date 15-Jun-2015

Revision Note Not applicable.

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Revision Date 15-Jun-2015

Revision#

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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