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| Health Hazard | 0 |
| Fire Hazard | 3 |
| Reactivity | 0 |

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product Identifier

PRODUCT NAME: PISTACHIO FLAVOR EXTRACT - PG FREE, NATURAL (ESPSU)

SUPPLIER: OliveNation LLC
ADDRESS: 13 Robbie Road, Suite A4, Avon, MA 02322
PHONE: 617-580-3667

1.2 Relevant identified uses of the substance or moisture and uses advised against

Recommended Use Food and beverage flavoring

1.3 Details of the supplier of the safety data sheet

For further information, please contact
Email: support@olivenation.com

1.4 Emergency Telephone Number

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

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Acute aquatic toxicity Category 3
 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

Symbols
 Not Dangerous

2.2 Label Elements



Signal Word
 Warning

Hazard Statements

H402-Harmful to aquatic life
 H226- Flammable liquid and vapor

Precautionary Statements

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.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substances

Product contains ethanol at a percentage below the cut off concentration limit and does not present a health risk

3.2 Mixture

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.



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SECTION 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

- Abdominal pain.
- Confusion, slurred speech.
- Internal (stomach and intestinal) bleeding.
- Slowed breathing.
- Stupor (decreased level of alertness), even coma.
- Unsteady walking.
- Vomiting, sometimes bloody.
- Chronic alcohol overuse can lead to additional symptoms and multiple organ failure.

4.3 Indication of any immediate medical attention and special treatment needed

Seek immediate medical attention if any of the above symptoms are present.

Note to physicians Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. use alcohol-resistant foam.

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

SECTION 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.



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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)

SECTION 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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|-----------------------------|--------------------------|
| Physical state | Liquid |
| Odor | Pistachio, nut |
| Property | |
| pH | No Information available |
| Melting/freezing point | No Information available |
| Boiling point/boiling range | No information available |
| Flash point(closed cup) | 22°C |
| Evaporation rate | No information available |
| Flammability(solid/gas) | No information available |
| Flammability limits in air | |
| 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 |
| Relative density | No information available |



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| Specific gravity @ 25°C | No information available |
| Specific gravity @20°C | No information available |
| Refractive index | No information available |
| 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 |

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|----------------------|--------------------------|
| Explosive properties | No information available |
| Oxidizing properties | No information available |

9.2 Other information

| | |
|------------------|--------------------------|
| VOC Content(%) | 60% |
| Molecular weight | No information available |

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The product is non-reactive.

10.2 Chemical Stability

The product is stable under normal pressures and temperatures.

10.3 Possibility of Hazardous Reactions

No known hazardous reactions.

10.4 Conditions to Avoid

Heat, flames, and sparks

10.5 Incompatible Material

No materials to be especially mentioned

10.5 Hazardous Decomposition Products

None under normal use conditions

SECTION 11: TOXICOLOGY INFORMATION

11.1 Information of toxicological effects

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

| | |
|-----------------------|---|
| Acute toxicity | There is no data available for this product |
| 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 | Symptoms include: Abdominal pain. Confusion, slurred speech. Internal (stomach and intestinal) bleeding. Slowed breathing. Stupor (decreased level of alertness), even coma. Unsteady walking. Vomiting, sometimes bloody. Chronic alcohol overuse can lead to additional symptoms and multiple organ failure. |
| Acute toxicity | 100%of the mixture consists of ingredient(s) of unknown toxicity |



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11.2 Inhalation

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| Skin corrosion/irritation | No information available |
| Eye damage/irritation | No information available |
| Sensitization | No information available |
| Germ Cell Mutagenicity | No information available |
| Carcinogenicity | No 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 |

11.3 Carcinogen Reports

Not listed as a carcinogenic substance by the National Toxicology Program or has been found to be a potential carcinogen in the International Agency for Research on Cancer Monographs.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

12.2 Persistence and Degradability

No information available

12.3 Bioaccumulative Potential

No information available

12.4 Mobility in Soil

No information available

12.5 Results of PBT and vPvB

No information available

12.6 Other Adverse Effects

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Waste from residues/ unused products: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal



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SECTION 14: TRANSPORT INFORMATION

DOT

Proper shipping Name EXTRACT, FLAVORING, LIQUID
 Class 3
 UN/ID No 1197
 Packing Group III

ICAO/IATA

UN/ID No 1197
 Proper Shipping Name EXTRACT, FLAVORING, LIQUID
 Class 3
 Packing Group III
 ERG Code 127

SECTION 15: OTHER REGULATORY INFORMATION

Federal and State Regulations:

California Prop 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning statute: Ethyl Alcohol 190 Proof California prop 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Organic Ethyl Alcohol 190 Proof California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute. Organic Ethyl alcohol 190 proof Rhode Island RTK hazardous substances: Organic Ethyl Alcohol 190 Proof Pennsylvania RTK: Organic Ethyl Alcohol 190 Proof Florida: Organic Ethyl Alcohol 190 Proof Massachusetts RTK Organic Ethyl Alcohol 190 Proof New Jersey: Organic Ethyl Alcohol 190 Proof TSCA 8(b) inventory: Organic Ethyl Alcohol 200 proof.

Other regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

WHMIS (Canada): Class B-2: Flammable liquid with a flash point lower than 37.8 deg C (100 deg F)

DSCL (EEC):

R11Highly Flammable. S2-Keep out of reach of children

National Fire Protections Association (USA):

Health: 0
 Flammability: 3
 Reactivity: 0
 Specific Hazard: None

Protective Equipment:

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.



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SECTION 16: OTHER INFORMATION

References: Not available

Other special Considerations: Not available

Created: 01/03/2015

Last updated: 05/24/2018

Revision Note: Not applicable.

Warning/Disclaimer: The ingredient(s) has not been tested, nor has it 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 this ingredient, OliveNation LLC instructs and by receiving this ingredient recipient confirms, that this ingredient will not be used in connection with the manufacture and distribution of E-cigarettes or any component thereof.

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