SAFETY DATA SHEET
SDS DATE 05/24/18

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

1.1 Product Identifier

PRODUCT NAME: PURE GINGER EXTRACT (ALL BRANDS & FOLDS)
SUPPLIER: OliveNation LLC
ADDRESS: 50 Terminal Street, Bldg. 2, Ste. 712, Charlestown, MA 02129
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

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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Revised By: Margaret Kobel Approved By: Senior Management
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.
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
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Ginger</td>
</tr>
<tr>
<td>pH</td>
<td>No Information available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No Information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point(closed cup)</td>
<td>24°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability(solid/gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability limits in air</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
</tr>
<tr>
<td>Lower flammability limit</td>
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</tr>
<tr>
<td>Vapor pressure mm Hg 20°C</td>
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</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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Specific gravity @ 25°C  No information available
Specific gravity @20ºC  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
Explosive properties  No information available
Oxidizing properties  No information available

9.2 Other information

VOC Content(%)  50%
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
Acute toxicity  Chronic alcohol overuse can lead to additional symptoms and multiple organ failure.
100% of the mixture consists of ingredient(s) of unknown toxicity

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11.2 Inhalation

<table>
<thead>
<tr>
<th>Effect</th>
<th>Information Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>No information available</td>
</tr>
<tr>
<td>Eye damage/irritation</td>
<td>No information available</td>
</tr>
<tr>
<td>Sensitization</td>
<td>No information available</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Target Organ Effects</td>
<td>Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system, Skin</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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:
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 Protection 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.
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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