1 Identification

- Product identifier
- Trade name: POMEGRANATE NATURAL EXTRACT
- Article number: 46.918

Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  OliveNation LLC
  50 Terminal Street
  Bldg. 2, Ste. 712
  Charlestown, MA 02129

- Information department: Regulatory department
- Emergency telephone number:
  During normal opening times: Call Chemtrec Day or Night
  Domestic North America 800.424.9300/International 703.527.3887 (Collect calls accepted)

2 Hazard(s) identification

- Classification of the substance or mixture

  GHS02 Flame

  Flam. Liq. 3 H226 Flammable liquid and vapor.

  GHS07

  Skin Irrit. 2 H315 Causes skin irritation.
  STOT SE 3 H335 May cause respiratory irritation.

  Eye Irrit. 2B H320 Causes eye irritation.

- Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms

  GHS02 GHS07

- Signal word Warning

(Contd. on page 2)
Trade name: POMEGRANATE NATURAL EXTRACT

- **Hazard-determining components of labeling:**
  ethyl alcohol

- **Hazard statements**
  Flammable liquid and vapor.
  Causes skin and eye irritation.
  May cause respiratory irritation.

- **Precautionary statements**
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  Ground/bond container and receiving equipment.
  Use explosion-proof electrical/ventilating/lighting/equipment.
  Use only non-sparking tools.
  Take precautionary measures against static discharge.
  Avoid breathing dust/june/gas/mist/vapors/spray
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  Call a poison center/doctor if you feel unwell.
  Specific treatment (see on this label).
  If skin irritation occurs: Get medical advice/attention.
  If eye irritation persists: Get medical advice/attention.
  Take off contaminated clothing and wash it before reuse.
  In case of fire: Use for extinction: CO2, powder or water spray.
  Store in a well-ventilated place. Keep container tightly closed.
  Store in a well-ventilated place. Keep cool.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    
    | Health | Fire | Reactivity |
    |--------|------|------------|
    | 1      | 3    | 0          |

  - **HMIS-ratings (scale 0 - 4)**
    
    | Health | Fire | Reactivity |
    |--------|------|------------|
    | 1      | 3    | 0          |
4 First-aid measures

- **Description of first aid measures**
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:**
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing:** If symptoms persist consult doctor.
  - **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed**
    No further relevant information available.
6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
  Dilute with plenty of water.
  Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.
- **Reference to other sections**
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
  No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  **Requirements to be met by storerooms and receptacles:**
  Store in tightly sealed containers in a cool, dry place that is well ventilated. Away from heat, spark, and open flame.
  **Information about storage in one common storage facility:** Not required.
  **Further information about storage conditions:** Keep container tightly sealed.
  **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
  **Components with limit values that require monitoring at the workplace:**
  **57-55-6 PROPYLENE GLYCOL**
  WEEL | Long-term value: 10 mg/m³
Safety Data Sheet  
acc. to OSHA HCS  

Printing date 10/10/2018  
Reviewed on 10/10/2018  

Trade name: POMEGRANATE NATURAL EXTRACT

<table>
<thead>
<tr>
<th>64-17-5 ethyl alcohol</th>
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</thead>
<tbody>
<tr>
<td>PEL Long-term value: 1900 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>REL Long-term value: 1900 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>TLV Short-term value: 1880 mg/m³, 1000 ppm</td>
</tr>
</tbody>
</table>

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Avoid contact with the eyes.
  Avoid contact with the eyes and skin.

· Breathing equipment:
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

  Tightly sealed goggles
### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Fluid
    - Color: According to product specification
  - **Odor:** Characteristic
  - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.

- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling range:** Undetermined.
  - **Flash point:** 27.2 °C (81 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:**
  - **Decomposition temperature:** Not determined.

- **Auto igniting:**
  - Product is not selfigniting.

- **Danger of explosion:**
  - Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.

- **Vapor pressure:** Not determined.

- **Density at 20 °C (68 °F):** 0.98796 g/cm³ (8.24453 lbs/gal)
  - **Relative density** Not determined.
  - **Vapor density** Not determined.
  - **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**
  - **Water:** Fully miscible.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.
Trade name: POMEGRANATE NATURAL EXTRACT

- Solvent content:
  - Organic solvents: 73.9 %
  - Water: 20.6 %
  - VOC content: 73.85 %
  - Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: Irritating effect.
  - Sensitization: No sensitizing effects known.
- Additional toxicological information:
  - The product shows the following dangers according to internally approved calculation methods for preparations:
    - Irritant

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    - 64-17-5 ethyl alcohol
    - 1401-55-4 Tannins
    - 140-11-4 BENZYL ACETATE
  - NTP (National Toxicology Program)
    - None of the ingredients is listed.
Trade name: POMEGRANATE NATURAL EXTRACT

12 Ecological information

- **Toxicity**
- **Aquatic toxicity**: No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems**:
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information**:
  - **General notes**:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
  - **PBT**: Not applicable.
  - **vPvB**: Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**:
  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings**:
  - **Recommendation**: Disposal must be made according to official regulations.
  - **Recommended cleansing agent**: Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
  - **DOT, IMDG, IATA** UN1197
- **UN proper shipping name**
  - **DOT**
  - **IMDG, IATA** Extracts, flavoring, liquid
    EXTRACTS, FLAVOURING, LIQUID
### Trade name: POMEGRANATE NATURAL EXTRACT

<table>
<thead>
<tr>
<th>DOT</th>
<th>Class</th>
<th>3 Flammable liquids</th>
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</thead>
<tbody>
<tr>
<td>Label</td>
<td>3</td>
<td></td>
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<table>
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<tr>
<th>IMDG, IATA</th>
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<td>Class</td>
</tr>
<tr>
<td>Label</td>
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</tbody>
</table>

### Packing group

<table>
<thead>
<tr>
<th>DOT, IMDG, IATA</th>
<th>III</th>
</tr>
</thead>
</table>

### Environmental hazards:

Not applicable.

### Special precautions for user

Warning: Flammable liquids

### EMS Number:

F-E,S-D

### Stowage Category

A

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### Transport/Additional information:

#### DOT

Quantity limitations: 
- On passenger aircraft/rail: 60 L
- On cargo aircraft only: 220 L

#### IMDG

- **Limited quantities (LQ)**: 5L
- **Exceptional quantities (EQ)**: Code: E1
  - Maximum net quantity per inner packaging: 30 ml
  - Maximum net quantity per outer packaging: 1000 ml

### UN "Model Regulation":

UN 1197 EXTRACTS, FLAVORING, LIQUID, 3, III

(Contd. of page 8)
15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara

  · Section 355 (extremely hazardous substances):
  None of the ingredients is listed.

  · Section 313 (Specific toxic chemical listings):
  None of the ingredients is listed.

· TSCA (Toxic Substances Control Act) (Substances not listed):
  All ingredients are listed.

· TSCA new (21st Century Act) (Substances not listed)
  · Proposition 65

  · Chemicals known to cause cancer:
  None of the ingredients is listed.

  · Chemicals known to cause reproductive toxicity for females:
  None of the ingredients is listed.

  · Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.

  · Chemicals known to cause developmental toxicity:
  64-17-5 ethyl alcohol

· Carcinogenic categories
  · EPA (Environmental Protection Agency)
  None of the ingredients is listed.

  · TLV (Threshold Limit Value established by ACGIH)
  64-17-5 ethyl alcohol A3
  140-11-4 BENZYL ACETATE A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)
  None of the ingredients is listed.

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
  · Hazard pictograms

  GHS02  GHS07
Trade name: POMEGRANATE NATURAL EXTRACT

· Signal word Warning

· Hazard-determining components of labeling:
  ethyl alcohol

· Hazard statements
  Flammable liquid and vapor.
  Causes skin and eye irritation.
  May cause respiratory irritation.

· Precautionary statements
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  Ground/bond container and receiving equipment.
  Use explosion-proof electrical/ventilating/lighting/equipment.
  Use only non-sparking tools.
  Take precautionary measures against static discharge.
  Avoid breathing dust/fume/gas/mist/vapors/spray
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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  Take off contaminated clothing and wash it before reuse.
  In case of fire: Use for extinction: CO2, powder or water spray.
  Store in a well-ventilated place. Keep container tightly closed.
  Store in a well-ventilated place. Keep cool.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases
  H225 Highly flammable liquid and vapor.
  H315 Causes skin irritation.
  H320 Causes eye irritation.
Trade name: POMEGRANATE NATURAL EXTRACT

H335 May cause respiratory irritation.

- Department issuing SDS: Regulatory department
- Date of preparation / last revision: 10/10/2018 / -

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  VOC: Volatile Organic Compounds (USA, EU)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety & Health
  TLV: Threshold Limit Value
  PEL: Permissible Exposure Limit
  REL: Recommended Exposure Limit
  Flam. Liq. 2: Flammable liquids – Category 2
  Flam. Liq. 3: Flammable liquids – Category 3
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3