# Product Specification

**Product Name:** CINNAMON BARK OIL  
**Vigon Code:** 505124  
**CAS Number:** MIXTURE  
**FEMA Number:** N/A

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Chromatograph</td>
<td>PASSES TEST</td>
</tr>
<tr>
<td>Optical Rotation (@25c)</td>
<td>-2.00 2.00</td>
</tr>
<tr>
<td>Odor</td>
<td>CHARACTERISTIC CINNAMON ODOR.</td>
</tr>
<tr>
<td>Refractive Index (@20c)</td>
<td>1.5850 1.6050</td>
</tr>
<tr>
<td>Specific Gravity (@25c)</td>
<td>1.0250 1.0450</td>
</tr>
<tr>
<td>Flavor</td>
<td>PASSES TEST</td>
</tr>
<tr>
<td>Color/appearance</td>
<td>YELLOW TO LIGHT AMBER LIQUID.</td>
</tr>
</tbody>
</table>

---

**Additional Product Information:**  
**Flash Point:** >200 °F  
**Shelf Life:** 36 Months  
**Storage Conditions:** Stable when stored in its original package, tightly sealed in a cool (46-90°F) and dry location out of direct heat and light.  
**Effective Date:** January 15, 2016
1. IDENTIFICATION

Product Description: CINNAMON BARK OIL

CAS # MIXTURE

Other means of identification

Vigon Item # 505124

Recommended use

Concentrated flavor ingredient which may be used in flavor compounds according to legal and
FEMA GRAS/FDA guidelines.

Recommended restrictions

For Manufacturing Use Only

Company

Vigon International, Inc.
127 Airport Road
E. Stroudsburg, PA 18301

For information call: 570-476-6300

Web Site: www.vigon.com

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Vigon International, Inc.
Address 127 Airport Road
E. Stroudsburg, PA 18301
United States

Telephone For information call: 570-476-6300

Website www.vigon.com

E-mail Not available.

Emergency phone number INFOTRAC (ACCT# 78928);
1-800-535-5053 WITHIN THE U.S.A.
1-352-323-3500 OUTSIDE THE U.S.A.

2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

Health hazards

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Sensitization, skin Category 1

Environmental hazards

Hazardous to the aquatic environment, acute hazard Category 3

Hazardous to the aquatic environment, long-term hazard Category 3

Label elements

![Warning symbol]
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Signal word
Warning

Hazard statement
Causes skin irritation. Causes skin and eye irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement
Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.

Response
IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage
Store away from incompatible materials.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOCl)
None known.

Supplemental information
None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINNAMON BARK OIL</td>
<td>MİXTURE</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

Additional components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINNAMIC ALDEHYDE</td>
<td>CINNAMAL 3- phenylprop-2-enal PHENYL ACROLEIN benzylidene acetaldehyde 3- phenyl acryl aldehyde</td>
<td>104-55-2</td>
<td>65 - 80</td>
</tr>
<tr>
<td>EUGENOL</td>
<td>5-ALLYL-2-HYDROXY-ANISOL 2-METHOXY-4-(2-PROPENYL)-PHENOL 1-HYDROXY-2-METHOXY-4-ALLYLBENZENE 2-METHOXY-4-ALLYLPHENOL</td>
<td>97-53-0</td>
<td>5 - 15</td>
</tr>
<tr>
<td>CARYOPHYLLENE BETA</td>
<td>(1R,4E,9S)-4,11,11-trimethyl-8-methylidenecyclo[7,2,0]undec-4-ene</td>
<td>87-44-5</td>
<td>2 - 12</td>
</tr>
<tr>
<td>CINNAMIC ALCOHOL</td>
<td>3-PHENYL-2-PROPEN-1-OL STYRYL CARBINOL 1- phenyl prop-1-en-3-ol 3- phenyl allyl alcohol</td>
<td>104-54-1</td>
<td>0.5 - 5</td>
</tr>
<tr>
<td>METHOXY CINNAMIC ALDEHYDE ORTHO</td>
<td>(E)-3-(2- methoxyphenyl)prop-2-enal 2-Propenal, 3-(2-methoxyphenyl)-2′-Methoxycinnamaldehyde</td>
<td>1504-74-1</td>
<td>0.5 - 5</td>
</tr>
</tbody>
</table>
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505124 CINNAMON BARK OIL

Additional components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZYL BENZOATE</td>
<td>benzyl benzene carboxylate phenyl methyl benzoate BENZYL PHENYL FORMATE</td>
<td>120-51-4</td>
<td>0.5 - 3</td>
</tr>
<tr>
<td>CINNAMYL ACETATE</td>
<td>1-acetoxy-3-phenyl-2-propene 3-phenyl allyl acetate 3- phenylprop-2-enyl acetate 2-Propen-1-ol, 3-phenyl-, acetate 3-Phenyl-2-propen-1-ol acetate; Cinnamyl acetate</td>
<td>103-54-8</td>
<td>0.5 - 3</td>
</tr>
<tr>
<td>LINALOOL</td>
<td>2,6-DIMETHYL-2,7-OCTADIENE-6-OL 1,6-Octadien-3-ol, 3,7-dimethyl-3,7-Dimethylocta-1,6-dien-3-ol LINALYL ALCOHOL</td>
<td>78-70-6</td>
<td>0.5 - 3</td>
</tr>
<tr>
<td>BENZALDEHYDE</td>
<td>PHENYL METHANAL BENZENE METHYLAL BENZENE CARBONAL BENZENE CARBOXALDEHYDE Benzyl hydride</td>
<td>100-52-7</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

Inhalation
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

Skin contact
Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

Eye contact
Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion
Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn’t enter the lungs.

Most important symptoms/effects, acute and delayed
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed
Not available.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical
Fire may produce irritating, corrosive and/or toxic gases.
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Special protective equipment and precautions for firefighters
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Fire fighting equipment/instructions
In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Specific methods
Use water spray to cool unopened containers.

General fire hazards
Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Methods and materials for containment and cleaning up
Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

Environmental precautions
Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. HANDLING AND STORAGE

Precautions for safe handling
Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities
Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

<table>
<thead>
<tr>
<th>Additional components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZALDEHYDE (CAS 100-52-7)</td>
<td>STEL</td>
<td>17.4 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>4 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.7 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 ppm</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

- **Eye/face protection**: Wear safety glasses with side shields (or goggles). Face shield is recommended.
- **Skin protection**
  - **Hand protection**: Chemical resistant gloves.
  - **Other**: Use of an impervious apron is recommended.
- **Respiratory protection**: Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.
- **Thermal hazards**: Wear appropriate thermal protective clothing, when necessary.
- **General hygiene considerations**: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Refer to Spec Sheet</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Refer to Spec Sheet</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 200.0 °F (&gt; 93.3 °C) Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>
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Upper/lower flammability or explosive limits

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Vapor pressure Not available.
Vapor density Not available.
Relative density Not available.
Solubility(ies)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility (water)</td>
<td>Insoluble</td>
</tr>
</tbody>
</table>

Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.
Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosive properties</td>
<td>Not explosive.</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing.</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.04 at 25 °C</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.
Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials Strong oxidizing agents.
Hazardous decomposition products No hazardous decomposition products if stored and handled as indicated.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No adverse effects due to inhalation are expected.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Causes skin irritation. May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Expected to be a low ingestion hazard.</td>
</tr>
</tbody>
</table>
## Symptoms related to the physical, chemical and toxicological characteristics
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

## Information on toxicological effects

### Acute toxicity

#### Toxicological data

<table>
<thead>
<tr>
<th>Additional components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BENZALDEHYDE (CAS 100-52-7)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>1.5 mg/l, 4</td>
</tr>
<tr>
<td><strong>EUGENOL (CAS 97-53-0)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCL0</td>
<td>Rat</td>
<td>5000 mg/kg subcutaneous</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>2580 mg/m³, 4 hours ARTODN 62,381,1988</td>
</tr>
<tr>
<td><strong>BENZYL BENZOATE (CAS 120-51-4)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>4000 mg/kg</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1700 mg/kg</td>
</tr>
<tr>
<td><strong>CINNAMYL ACETATE (CAS 103-54-8)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>3300 mg/kg</td>
</tr>
<tr>
<td><strong>LINALOOL (CAS 78-70-6)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>2790 mg/kg</td>
</tr>
<tr>
<td><strong>CINNAMIC ALCOHOL (CAS 104-54-1)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>
Additional components | Species | Test Results
--- | --- | ---
**Oral**
LD50 | Rat | 2000 mg/kg

**METHOXY CINNAMIC ALDEHYDE ORTHO (CAS 1504-74-1)**

- **Acute**
  - **Oral**
    - LD50 | Rat | > 5000 mg/kg

**CINNAMIC ALDEHYDE (CAS 104-55-2)**

- **Acute**
  - **Dermal**
    - LD50 | Rabbit | 0.59 ml/kg
  - **Oral**
    - LD50 | Rat | 2200 mg/kg

Skin corrosion/irritation | Causes skin irritation.
Serious eye damage/eye irritation | Causes serious eye irritation.
Respiratory or skin sensitization
  - **Respiratory sensitization** | Not a respiratory sensitizer.
  - **Skin sensitization** | May cause an allergic skin reaction.
Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

- IARC Monographs. Overall Evaluation of Carcinogenicity
  - Not listed.
  - Not regulated.
- US. National Toxicology Program (NTP) Report on Carcinogens
  - Not listed.
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
  - Not available.

Reproductive toxicity | This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure | Not classified.
Specific target organ toxicity - repeated exposure | Not classified.
Aspiration hazard | Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity | Harmful to aquatic life with long lasting effects.
### Additional components

<table>
<thead>
<tr>
<th>Species</th>
<th>Species Details</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZALDEHYDE (CAS 100-52-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>EC50 Activated sludge, industrial</td>
<td>759.3 mg/l</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>EC50 Algae</td>
<td>24.9 mg/l, 96 hours</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50 Daphnia magna</td>
<td>50 mg/l, 24 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50 Bluegill (Lepomis macrochirus)</td>
<td>&gt; 0.8 - &lt; 1.44 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Pimephales promelas</td>
<td>7.61 mg/l, 96 hours</td>
</tr>
<tr>
<td>EUGENOL (CAS 97-53-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>LD50 Bird</td>
<td>&gt; 316 mg/kg Schafer, 1983</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50 Daphnia magna</td>
<td>1.13 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Invertebrates (Invertebrates)</td>
<td>0.012 mg/kg Lee, 1997</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50 Danio rerio</td>
<td>13 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>60.8 mg/l, 96 hours</td>
</tr>
<tr>
<td>LINALOOL (CAS 78-70-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>EC10 Activated sludge of a predominantly</td>
<td>&gt; 100 mg/l, 3 hours</td>
</tr>
<tr>
<td></td>
<td>domestic sewage</td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>EC50 Green algae (Chlamydomonas variabilis)</td>
<td>88.3 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DIN 38412 Part 9 static. The details of the toxic effect related to the nominal concentration.</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50 Daphnia magna</td>
<td>20 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DIN 38412 Part 11 static. The details of the toxic effect related to the nominal concentration.</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50 Ide, silver or golden orfe (Leuciscus</td>
<td>&gt; 22 - &lt; 46 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td>idus)</td>
<td>DIN 38412 Part 15 static. The details of the toxic effect related to the nominal concentration.</td>
</tr>
<tr>
<td></td>
<td>LC50-R Fish</td>
<td>27.8 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

### Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

### Biodegradability

- **Percent degradation (Aerobic biodegradation-ready)**
  - **LINALOOL**: > 60 - < 70 %, Readily biodegradable (according to OECD criteria).
  - Result: OECD 301D; EEC 92/69, C4-E (aerobic)
  - Test Duration: 28 days

### Bioaccumulative potential

- No data available.

### Mobility in soil

- No data available.
Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal instructions

Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

Not established.

Waste from residues / unused products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADN

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

DOT

BULK

Not regulated as dangerous goods.

DOT

NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.
SAFETY DATA SHEET

505124 CINNAMON BARK OIL

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance
Not listed.
SARA 311/312 Hazardous chemical
   Classified hazard categories
      Skin corrosion or irritation
      Serious eye damage or eye irritation
      Respiratory or skin sensitization
Yes
SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
California Proposition 65
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date 02-16-2016
Revision date 07-06-2018
Version # 04
HMIS® ratings Health: 2
                        Flammability: 1
                        Physical hazard: 0
Disclaimer

Vigon International, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. Vigon International, Inc. has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Vigon's knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.
The following product(s) Manufactured By Vigon International, LLC are certified kosher with the listed restrictions.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Name</th>
<th>Status</th>
<th>Restriction</th>
<th>UKD#</th>
</tr>
</thead>
<tbody>
<tr>
<td>505124</td>
<td>CINNAMON BARK OIL</td>
<td>Parve</td>
<td>Kof-K symbol required</td>
<td>KFN6P96AR9T</td>
</tr>
</tbody>
</table>
This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: January 25, 2021
Document #: 6718.12506.II216128

<table>
<thead>
<tr>
<th>Company Name &amp; Address:</th>
<th>Vigon International, Inc. 127 Airport Road East Stroudsburg, Pennsylvania 18301 USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Name &amp; Address:</td>
<td>Vigon International, Inc. 127 Airport Road East Stroudsburg, Pennsylvania 18301 USA</td>
</tr>
<tr>
<td><strong>ProductName</strong></td>
<td><strong>Product Code</strong></td>
</tr>
<tr>
<td>-------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>1. CINNAMON BARK OIL</td>
<td>505124</td>
</tr>
</tbody>
</table>

This Certificate is valid until January 31, 2022 and subject to renewal at that time.
Food Grade Certification

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

FEMA #: N/A

Vigon International, LLC. certifies that the above flavor or ingredient is Food Grade in accordance with at least one of the following recognized organizations:

- FDA/FEMA GRAS (Flavor and Extract Manufacturers Assoc. Generally Recognized as Safe)
- JECFA (Joint FAO/WHO Expert Committee on Food Additives)
- CoE (Council of Europe)
- FLAVIS (Assigned by EFSA – European Food Safety Authority)

As a US based company, we have included the FEMA Number on this certificate however, the remaining numbers can be provided upon request. We hereby certify that this flavor or ingredient is safe for its intended use in food.

Vigon International, LLC. may terminate this certification at any time upon written notice in which this certificate shall become null and void as to any material supplied after termination of this certification.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Vigon International, LLC. certifies that the product listed above is declared natural and meets the criteria of Naturalness as defined in Section 101.22 (a) (3) of Title 21 of the United States Code of Federal Regulations.

Vigon International, LLC. certifies that the product meets the following criteria:

- Does not contain any artificial flavors
- Is not adulterated or misbranded according to Food and Drug laws

Vigon International, LLC. may terminate this certification at any time upon written notice, in which this certification shall be null and void as to any material supplied after termination of the certification.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Allergen/Sensitive Agents Identification Sheet

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

* A check mark (✓) indicates the Allergen/Sensitive Agent is present. If blank it means that there is no Allergen/Sensitive present.

<table>
<thead>
<tr>
<th>ALLERGEN/SENSITIVE AGENTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CORN &amp; CORN PRODUCTS</td>
<td>* ✓</td>
</tr>
<tr>
<td>Includes modified starch, hydrolyzed protein, sweeteners, sugars, spice carriers</td>
<td></td>
</tr>
<tr>
<td>EGG &amp; EGG PRODUCTS</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>liquid and powders</td>
<td></td>
</tr>
<tr>
<td>FISH</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Includes any and all species of fresh and salt water fish</td>
<td></td>
</tr>
<tr>
<td>GARLIC</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Dehydrated, powdered, granules, and flakes</td>
<td></td>
</tr>
<tr>
<td>GLUTEN</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Wheat, rye, barley, oats, flour, etc.</td>
<td></td>
</tr>
<tr>
<td>MILK &amp; DAIRY PRODUCTS</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Includes whey, lactose, cheese, casein, spice carriers, milk, cream, etc.</td>
<td></td>
</tr>
<tr>
<td>MONOSODIUM GLUTAMATE</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>PEANUTS, PEANUT OIL &amp; PEANUT DERIVED ITEMS</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Peanut meal, flour &amp; ground nuts, szechwan sauce, mandelona nuts, etc.</td>
<td></td>
</tr>
<tr>
<td>SESAME SEEDS &amp; SESAME OIL</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>CRUSTACEANS</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Shrimp, lobster, rock lobster, crab, crayfish, and products made from them</td>
<td></td>
</tr>
<tr>
<td>MOLLUSKS</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Clams, mussels, oysters, scallops, and products made from them</td>
<td></td>
</tr>
<tr>
<td>SOY</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Includes soya powder, protein, oil, lecithin, tofu</td>
<td></td>
</tr>
<tr>
<td>SULFITES</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Includes sulfur dioxide, sodium dithionite, chemicals that lists sulfite, etc.</td>
<td></td>
</tr>
<tr>
<td>TREE NUTS</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Includes almonds, beechnuts, bazil nuts, nutmeg, cashews, chestnuts, etc.</td>
<td></td>
</tr>
<tr>
<td>WHEAT</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Includes hydrolyzed wheat protein, flour, gluten flour, starches</td>
<td></td>
</tr>
<tr>
<td>MUSTARD &amp; MUSTARD OIL</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>LUPIN</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>CELERY</td>
<td>✓ ✓</td>
</tr>
</tbody>
</table>

Vigon International, LLC. follows Good Manufacturing Practices and has implemented HACCP systems. Our personnel are trained on the proper handling of allergenic materials.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Organic Statement

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

Vigon International, LLC. declares that the product listed above meets the requirements for nonagricultural (non-organic) substances allowed as ingredients in or on processed products labeled as "organic" or "made with organic (specified ingredients or food group(s))" [7 CFR 205.605(a)(9)].

All of the flavor constituents in the natural flavor product named above meet the FDA definition of a natural flavor.

No synthetic solvents were used.

This natural flavor product, including any solvents, carriers, preservatives or other processing aids used or contained therein, was produced and handled without the use of excluded (GMO) methods.

Ionizing radiation as described in 21 CFR 179.26 was not used in the processing of this natural flavor product.

This natural flavor product was not derived from products using sewage sludge in their agricultural production.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
GMO Status Statement

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

Vigon International, LLC. declares that the product listed above is not derived from or produced using genetically modified organisms or their derivatives.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Irradiation and Sewage Sludge Statement

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

Vigon International, LLC. declares that the product listed above has **not** been:

a) Exposed to Ionizing Radiation  
b) Derived from Sewage Sludge  
c) Treated with Ethyl Oxide

Vigon International, LLC. may terminate this statement at any time upon written notice in which this statement shall be null and void as to any material supplied after termination of the statement.

Sincerely,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: December 2, 2021
Heavy Metals and Pesticide Statement

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

Vigon International, LLC. declares that, to the best of our knowledge and belief, all ingredients in the product listed above are listed as being generally recognized as safe (GRAS) by the Food and Drug administration (FDA) when used in accordance with the FDA's good manufacturing practices (GMP) and contain no residues of heavy metals and pesticides in excess of tolerances set by the FDA and the Environmental Protection Agency (EPA).

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Stabilizer Statement

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

Vigon International, LLC. declares that, to the best of our knowledge that the product listed above has not been treated with BHT, BHA, Tocopherols or any other stabilizer.

Vigon International, LLC. may terminate this statement at any time upon written notice in which this statement shall be null and void as to any material supplied after termination of the statement.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Continuing Product Guarantee

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

In accordance with the regulations promulgated under the Federal Food, Drug, and Cosmetic Act, Vigon International, LLC. hereby provides continuing guarantee for the item listed above.

The article(s) comprising each shipment or other delivery hereafter made by Vigon International, LLC. is hereby guaranteed, as of the date of shipment or delivery, to be, on such date, not adulterated or misbranded within the meaning of the Federal Food, Drug, and Cosmetic Act, and not an article which may not, under the provisions of section 404, 505, or 512 of the act, be introduced into interstate commerce.

The guarantee herein given shall be a continuing guarantee and shall remain in full force and effect until revoked in writing by the undersigned. This guarantee shall not limit or preclude the operation and effect of any and all provisions of any agreement(s) under which the articles covered by this guarantee are sold, and the provisions of such agreement(s) shall govern in the event of any conflict or inconsistency herewith. Supplier's liability for breach of this guarantee shall in no event exceed the value of such of the articles of the supplier shipped to or on the order of Purchaser hereunder as may fail to comply with this guarantee.

This guarantee shall be void and of no effect in any instance where the particular use by Purchaser of any article to which this guarantee would otherwise apply is a use which is not in accordance with the requirements of the Federal Food, Drug and Cosmetic Act. Any and all prior guarantees and/or indemnity agreements heretofore given by supplier, are hereby revoked.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Dietary Preferences & Restrictions

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

Vigon International, LLC. certifies that the product listed above is suitable for consumption by:

<table>
<thead>
<tr>
<th>Dietary Preference</th>
<th>Restrictions</th>
<th>Suitable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegans</td>
<td>Do not eat meat, poultry, fish/seafood, eggs, dairy products, honey</td>
<td>✔️</td>
</tr>
<tr>
<td>Lacto-Vegetarians</td>
<td>Do not eat meat, poultry, fish/seafood, eggs, but do eat dairy products</td>
<td>✔️</td>
</tr>
<tr>
<td>Ovo-Vegetarians</td>
<td>Do not eat meat, poultry, fish/seafood, dairy products, but do eat eggs</td>
<td>✔️</td>
</tr>
<tr>
<td>Vegetarians</td>
<td>Do not eat meat, poultry, fish/seafood, but do eat dairy products and eggs</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Animal Testing Statement

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

Vigon International, LLC. is not in the practice of performing or commissioning animal testing on its finished products and actively evaluates the ingredients of its products through non-animal testing methods and through computational (predictive) toxicology programs. However, some ingredients used in our products have been subjected to animal testing by the academic community, government agencies, or within the chemical industry.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
EU Declaration

Vigon Code: 505124
Product Name: CINNAMON BARK OIL

The product listed above is acceptable and/or approved for use in the European Union. Below is the flavoring status based on European Regulation 2008/1334/EC.

<table>
<thead>
<tr>
<th>Flavouring Preparation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Flavouring Substance</td>
</tr>
<tr>
<td>Flavouring Substance</td>
</tr>
<tr>
<td>Thermal Process Flavouring</td>
</tr>
<tr>
<td>Smoke Flavouring</td>
</tr>
<tr>
<td>Flavour Precursor</td>
</tr>
<tr>
<td>Other Flavouring</td>
</tr>
<tr>
<td>Not Applicable: Contains no ingredients whose use is intended primarily for flavour.</td>
</tr>
<tr>
<td>Not Permitted: Contains ingredient(s) which are not permitted in flavours in the EU.</td>
</tr>
</tbody>
</table>

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
The USDA National Organic Program (NOP) allows the use of certain natural (non-synthetic) substances, including flavors, in products labeled as "Organic" or "Made with Organic..."(specified ingredients or food groups)" providing they comply with provisions established in the USDA NOP (7 CFR Part 205).

The NOP defines Non-synthetic (natural) in 7 CFR 205.2: a substance that is derived from mineral, plant or animal matter and does not undergo a synthetic process as defined in section 6502 (21) of the Act (7 U.S.C. 6502(21)). Under the terms of the Act, "synthetic" means a substance that is formulated or manufactured by a chemical process or by a process that chemically changes a substance extracted from naturally occurring plant, animal or mineral sources, except that such term shall not apply to substances created by naturally occurring biological processes.

Non-synthetic Flavors authorized under the NOP, Section 205.605 (a)(9) must be from non-synthetic sources only and must not be produced using synthetic solvents, carrier systems or any artificial preservative.

In addition, Sections 205.105 (e)(f) respectively prohibit so-called "excluded" methods (GMOs) and ionizing radiation from being used to produce or during the handling of any ingredients or products under the NOP.

FDA Definition of Natural Flavors FDA 21 CFR Part 101.22(a)(3) : "natural flavor or natural flavoring means the essential oil, oleoresin, essence or extractive, protein hydrolysate, distillate, or any product of roasting, heating or enzymolysis, which contains the flavoring constituents derived from a spice, fruit or fruit juice, vegetable or vegetable juice, edible yeast, herb, bark, bud, root, leaf or similar plant material, meat, seafood, poultry, eggs, dairy products, or fermentation products thereof, whose significant function in food is flavoring rather than nutritional. Natural flavors include [but not exclusively] the natural essences or extractives obtained from plants listed in §§182.10, 182.20, 182.40, and 182.50 and part 184 of this chapter, and the substances listed in §172.510 of this chapter."

In order to approve the use of a natural flavor used in an "organic" or "made with" product, QAI requests the information below in order to determine compliance under the terms of the NOP. QAI may request additional information as needed.

Identification of Natural Flavor Product (Name/code): CINNAMON BARK OIL/505124

Supplier Name and Address: Vigon International, LLC, 127 Airport Road East Stroudsburg, PA 18301 USA

Type of flavor (select one or more as necessary):

<table>
<thead>
<tr>
<th></th>
<th>Protein Hydrolysate</th>
<th>Extracts</th>
<th>Essential oil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Compounded flavor</td>
<td>Oleoresin</td>
<td>Isolate</td>
</tr>
<tr>
<td></td>
<td>Distillate</td>
<td>Compounded WONF</td>
<td>Other</td>
</tr>
</tbody>
</table>

Natural Flavor Product

A. Flavor constituents

1. Do all of the flavor constituents in the natural flavor product named above meet the FDA definition of a natural flavor (see above)?
   - Yes [X] No [ ]

2. Natural flavors authorized for use in NOP "organic" or "made with organic" products, in addition, must not be produced using synthetic extraction solvents. Extraction may only use natural, non-petroleum based solvents. Is/are the natural flavor constituent(s) made using NOP-suitable extraction solvents?*
   - Yes [X] No [ ] N/A, no extraction solvents used
Please list any solvent(s) used in the production of this Natural Flavor Product:

STEAM

*Allowed natural extraction solvents include water, natural ethanol, super-critical carbon dioxide, authentic essential oil, and natural vegetable oils. No hydrocarbon solvents, or chlorinated, or halogenated solvents may be used. Propane, hexane, and freon are examples of solvents that are prohibited.

B. Non-flavor constituents and other ingredients

Natural flavors authorized for use in NOP "organic" or "made with organic" products must not contain any synthetic carrier systems or any artificial preservatives, including but not limited to, propylene glycol, polyglycerol esters of fatty acids, mono- and di-glycerides, benzoic acid, polysorbate 80.

Please list any carrier system(s) used in this Natural Flavor Product or attach an Ingredient Statement:

N/A, no carrier system(s) used

Please list any preservative(s) used in this Natural Flavor Product or attach an Ingredient Statement:

N/A, no preservative(s) used

C. Genetically Modified Organism (GMO) products may not be used at any stage in the process of making natural flavor products for NOP goods. Excluded methods (GMO use) include a variety of methods used to genetically modify organisms or influence their growth and development by means that are not possible under natural conditions or processes and are not considered compatible with organic production. Such methods include, but are not limited to, recombinant DNA technology (including gene deletion, gene doubling, introduction of a foreign gene, and changing the positions of genes when achieved by recombinant DNA technology); therefore, GMO-plant extracts may not be used nor may natural flavors be the product of GMO-yeast fermentation.

This natural flavor product, including any solvents, carriers, preservatives or other processing aids used or contained therein, was produced and handled without the use of excluded (GMO) methods?

Yes [X] No

D. Ionizing Radiation is prohibited for all uses involving food preservation, pest control and pathogen control in NOP products. Other radiation uses, including food inspection, are permitted providing such use meets applicable FDA regulations, which establish limitations applicable to all (organic and non-organic) food products.

Ionizing radiation as described in 21 CFR 179.26 was not used in the processing of this natural flavor product?

Yes [X] No

Please sign this questionnaire below

Pursuant to 7CFR §205.605(a)(9) and §205.105(e)(f), I, on behalf of the supplier, hereby attest that the information provided in this form is accurate and truthful to the best of my knowledge.

Company Name: Vigon International LLC

Printed Name: Amanda Moyer Title: Manager of Regulatory

Signature: Amanda Moyer Date: 12/02/21
Nanomaterials

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

We hereby confirm, to the best of our knowledge, that the above referenced product has not been formulated with engineered nanomaterials.

"Engineered nanomaterial" means any intentionally produced material that has one or more dimensions of the order of 100 nm or less or that is composed of discrete functional parts, either internally or at the surface, many of which have one or more dimensions of the order of 100 nm or less, including structures, agglomerates or aggregates, which may have a size above the order of 100 nm but retain properties that are characteristic of the nanoscale.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE) Statement

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

Vigon International, LLC. products are manufactured wholly from synthetic, natural or manufactured materials and do not contain any raw materials produced from or substances derived of animal origin. Moreover, these products do not contain, and are not derived from, specified risk material as defined in Commission Decision 97/534/EC or mechanically recovered meat obtained from the vertebral column of bovine, ovine or caprine animals.

The manufacturing process does not use any ingredient of animal origin nor do our products come in contact with animal products during storage and transportation.

We further declare that our products are Dioxin Free.

Therefore, to the best of our knowledge the product listed above are free from Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE).

Vigon International, LLC. may terminate this statement at any time upon written notice, in which this statement shall be null and void as to any material supplied after termination of the statement.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Product Name: CINNAMON BARK OIL

Vigon Code: 505124

We certify that the above material contains the following restricted substance restricted by IFRA Standards:

- Benzaldehyde         0.17
- Benzyl Benzoate      1.08
- Cinnamic Aldehyde/ Cinnamaldehyde   75.32
- Cinnamic Alcohol/ Cinnamyl Alcohol  2.21
- Eugenol              11.10

Coumarin-none
Isoeugenol-none

- is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA 50th amendment), depending on the application and the percentage of use in the final product.

The IFRA Standards regarding use restriction are based on safety assessments by the Panel of Experts of the Research Institute for Fragrance Materials (RIFM) and are enforced by the IFRA Scientific Committee.

It is the ultimate responsibility of our customer to ensure the safety of the final product by further testing if need be.

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Residual Solvents

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

Based on our knowledge of our production process, raw materials and equipments used we do not expect residual solvents to be present.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
EU Fragrance Allergen Statement

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

The product listed above contains the following substances listen in European Directive 76/768/EEC established by the SCCNFP declared allergens.

Benzyl Benzoate       1.08
Cinnamic Aldehyde/ Cinnamaldehyde    75.32
Cinnamic Alcohol/ Cinnamyl alcohol      2.21
Eugenol                11.10
Coumarin none
Isoeugenol none

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
Melamine Statement

Product Name:  CINNAMON BARK OIL

Vigon Code:  505124

Based on our knowledge of our production process, raw materials and equipment used we do not expect melamine to be present.

Sincerely,

Vigon Regulatory Department
regulatory@vigcon.com
Date of Issue: December 2, 2021
Phthalate Statement

Product Name: CINNAMON BARK OIL

Vigon Code: 505124

We’ve performed a risk assessment on our product contact plastics which include tubes, joints, caps, pumps, as well as packaging (e.g. plastic wraps and bags) and can confirm that our plastic products do not contain certain phthalate esters (most notably bis-2-Ethylhexyl phthalate[DEHP] and dibutyl phthalate [DBP]).

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: December 2, 2021
**CINNAMON BARK OIL**

**Code: 505124**  
**ID #: EXAMPLE**

<table>
<thead>
<tr>
<th>KG</th>
<th>LB</th>
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<tbody>
<tr>
<td>0.000</td>
<td>0.000</td>
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</tbody>
</table>

**Approx. Gross:** 0.000  
**Approx. Tare:** 0.000  
**Net:** 0.000

**Produced on:** N/A  
**Best used before:** N/A  
**Lot #:** EXAMPLE

**STORAGE CONDITIONS:** Stable when stored in its original package, tightly sealed in a cool (46-90ºF) and dry location out of direct heat and light.

**H A Z A R D S T A T E M E N T:** Causes skin irritation. Causes skin and eye irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**P R E C A U T I O N A R Y S T A T E M E N T:** -PREVENTION- Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.  
-RESPONSE- IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
-RECYCLING- Store away from incompatible materials.  
-RECYCLING- Dispose of contents/container in accordance with local/regional/national/international regulations.

**Country of Origin:** USA

**Chemical Name:** MIXTURE

**CAS#:**

**Flash Point:** > 200°F (93°C)

**Allergens:** NONE

**Liters:** 0.000

**pH:**

**Warning:**

**PPE:** D

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