Product Specification

**Product Name:** GUAIACOL NATURAL

**Vigon Code:** 507731

**CAS Number:** 90-05-1  
**FEMA Number:** 2532

### Characteristic:

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purity %</td>
<td>99.00 - 100.00</td>
</tr>
<tr>
<td>Gas Chromatograph</td>
<td>PASSES TEST</td>
</tr>
<tr>
<td>Odor</td>
<td>POWERFUL, SMOKE-LIKE, SOMEWHAT MEDICINAL ODOR.</td>
</tr>
<tr>
<td>Refractive Index (@20°C)</td>
<td>1.5400 - 1.5450</td>
</tr>
<tr>
<td>Specific Gravity (@25°C)</td>
<td>1.1290 - 1.1400</td>
</tr>
<tr>
<td>Color/appearance</td>
<td>COLORLESS TO PALE YELLOW LIQUID.</td>
</tr>
</tbody>
</table>

### Additional Product Information:

**Flash Point:** 179 °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. If product is congealed, heat gently, melt completely, and mix before use.

**Effective Date:** March 3, 2017

Printed Date: June 25, 2022

Vigon International, LLC.
127 Airport Road East Stroudsburg, PA 18301-9629 USA | Tel: +1 570-476-6300 | Fax: +1 570-476-1110 | Email: regulatory@vigon.com | Web: vigon.com
1. IDENTIFICATION

Product Description: GUAICOL NATURAL

CAS # 90-05-1

FEMA Number 2532

Other means of identification
Vigon Item # 507731

Recommended use Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.

Recommended restrictions For Manufacturing Use Only

Company Vigon International, Inc.

Address 127 Airport Road

E. Stroudsburg, PA 18301

For information call: 570-476-6300

Web Site: www.vigon.com

Manufacturer/Importer/Supplier/Distributor information

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 regulatory@vigon.com

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 Flammable liquids Category 4

Health hazards Acute toxicity, oral Category 4

Acute toxicity, dermal Category 5

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 3

Label elements
SAFETY DATA SHEET

507731 GUAIACOL NATURAL

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Version # 04

Signal word
Warning

Hazard statement
Combustible liquid. Harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. Causes skin and eye irritation. Causes serious eye irritation. Harmful to aquatic life.

Precautionary statement
Prevention
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. 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. Call a POISON CENTER/doctor if you feel unwell. 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 appropriate media to extinguish.

Storage
Store in a well-ventilated place.

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

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

Supplemental information
100% of the substance consists of component(s) of unknown acute inhalation toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUAIACOL</td>
<td>2-methoxyphenol</td>
<td>90-05-1</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>1- hydroxy-2-methoxybenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ortho- methoxyphenol</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>pyrocatechol methyl ester</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ortho- hydroxyanisole</td>
<td></td>
<td></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.
SAFETY DATA SHEET

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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.

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

Collect and dispose of spillage as indicated in section 13 of the SDS.

Methods and materials for containment and cleaning up
Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains.

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. 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.

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**
This substance has no PEL, TLV, or other recommended exposure limit.

**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.

**Individual protection measures, such as personal protective equipment**

- **Eye/face protection**
  Wear safety glasses with side shields (or goggles).

- **Skin protection**
  Chemical resistant gloves.

- **Hand protection**
  Not available.

- **Other**
  Not available.

- **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**
When using do not smoke. Keep away from food and drink. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**
Refer to Spec Sheet

**Physical state**
Liquid.

**Form**
Liquid.

**Color**
Refer to Spec Sheet

**Odor**
Characteristic.

**Odor threshold**
Not available.

**pH**
Not available.

**Melting point/freezing point**
89.6 °F (32 °C)

**Initial boiling point and boiling range**
399.2 - 402.8 °F (204 - 206 °C)

**Flash point**
179.0 °F (81.7 °C) Closed Cup

**Evaporation rate**
Not available.

**Flammability (solid, gas)**
Not applicable.

**Upper/lower flammability or explosive limits**

- **Flammability limit - lower (%)**
  Not available.
### Flammability limit - upper (%)
Not available.

### Explosive limit - lower (%)
Not available.

### Explosive limit - upper (%)
Not available.

### Vapor pressure
100 mm Hg at 144°C

### Vapor density
4.3

### Relative density
Not available.

### Solubility(ies)
- **Solubility (water):** Insoluble

### Partition coefficient (n-octanol/water)
1.32

### Auto-ignition temperature
Not available.

### Decomposition temperature
Not available.

### Viscosity
Not available.

### Other information
- **Density:** 1.13 g/cm³ estimated at 21 °C
- **Explosive properties:** Not explosive.
- **Flammability class:** Combustible IIIA estimated
- **Molecular formula:** C7-H8-O2
- **Molecular weight:** 124.13 g/mol
- **Oxidizing properties:** Not oxidizing.
- **Specific gravity:** 1.13 at 25 °C

## 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 heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### Incompatible materials
Strong oxidizing agents. Alkaline metals.

### Hazardous decomposition products
No hazardous decomposition products if stored and handled as indicated.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

- **Inhalation:** Knowledge about health hazard is incomplete.
- **Skin contact:** May be harmful in contact with skin. Causes skin irritation.
- **Eye contact:** Causes serious eye irritation.
- **Ingestion:** Harmful if swallowed.
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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.

Information on toxicological effects

Acute toxicity
Harmful if swallowed. May be harmful in contact with skin.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUAIACOL (CAS 90-05-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>4600 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>7570 mg/m3</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>520 mg/kg Remarks: Behavioral: General anesthetic.</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation.
Skin - rabbit
Result: Severe skin irritation - 24 h (Draize Test)

Serious eye damage/eye irritation
Direct contact with eyes may cause temporary irritation.
Eyes - rabbit
Result: Mild eye irritation - 24 h (Draize Test)

Respiratory or skin sensitization

Respiratory sensitization
Due to partial or complete lack of data the classification is not possible.

Skin sensitization
Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity
Result: Equivocal evidence.
Histidine reversion (Ames)
Human lymphocyte
Sister chromatid exchange Due to partial or complete lack of data the classification is not possible.

Carcinogenicity
Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens
Not listed.

Reproductive toxicity
Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - single exposure
Due to partial or complete lack of data the classification is not possible.
SAFETY DATA SHEET

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Specific target organ toxicity - repeated exposure
Due to partial or complete lack of data the classification is not possible.

Aspiration hazard
Due to partial or complete lack of data the classification is not possible.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUAIACOL (CAS 90-05-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna) 25.9 mg/l, 48 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this substance.

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Partition coefficient n-octanol / water (log Kow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.32</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Hazard class</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA1993</td>
<td>COMBUSTIBLE LIQUID, N.O.S. (GUAIACOL)</td>
<td>Combustible liq</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

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Version # 04

Packing group
Environmental hazards
   Marine pollutant  No
Packaging exceptions  150
Packaging bulk  242
Labels required  3

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.
   Toxic Substances Control Act (TSCA)
       TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
           Not regulated.
   CERCLA Hazardous Substance List (40 CFR 302.4)
       Not listed.
   SARA 304 Emergency release notification
       Not regulated.
   OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
       Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
   SARA 302 Extremely hazardous substance
       Not listed.
   SARA 311/312 Hazardous chemical
       Yes
       Classified hazard categories
           Flammable (gases, aerosols, liquids, or solids)
           Acute toxicity (any route of exposure)
           Skin corrosion or irritation
           Serious eye damage or eye irritation

SARA 313 (TRI reporting)
   Not regulated.

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

Safe Drinking Water Act (SDWA)
Not regulated.

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

Issue date 09-20-2017
Revision date 05-29-2020
Version # 04
HMIS® ratings
Health: 2
Flammability: 2
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
EXPOSURE CONTROLS/PERSONAL PROTECTION: Eye/face protection
Physical & Chemical Properties: Multiple Properties
Toxicological Information: Toxicological Data
ECOLOGICAL INFORMATION: Ecotoxicity
GHS: Classification
Vigon International, LLC  
127 AIRPORT RD.  
EAST STROUDSBURG, PA 18301 UNITED STATES

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>507731</td>
<td>Guaiacol Natural</td>
<td>Parve</td>
<td>Kof-K symbol required</td>
<td>KFYYKLXLREM</td>
</tr>
</tbody>
</table>

Date: June 24, 2022  
Kof-K ID: K-0000507  
Certificate ID: MTFZQ-L3G18  
Product Count: 1

To verify or for the most up to date certificate please go to www.koshercertificate.com  
201 The Plaza, Teaneck, NJ 07666 | Phone 201.837.0500 | fax 201.837.0126

Disclaimer: This certificate is the private property of KOF-K Kosher Supervision and cannot be reposted without the express permission of KOF-K Kosher Supervision.
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: October 28, 2021
Document #: 6718.12506.II218190

<table>
<thead>
<tr>
<th>ProductName</th>
<th>Product Code</th>
<th>Halal-ID</th>
<th>Product Certificate #</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUAIACOL NATURAL</td>
<td>507731</td>
<td>C18493</td>
<td>HC-21VIDE24</td>
</tr>
</tbody>
</table>

This Certificate is valid until January 31, 2023 and subject to renewal at that time.
Food Grade Certification

Product Name: GUAIACOL NATURAL

Vigon Code: 507731
FEMA #: 2532

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: June 25, 2022
Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
Allergen/Sensitive Agents Identification Sheet

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

* 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>ALLEGEN/SENSITIVE AGENTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORN &amp; CORN PRODUCTS</strong></td>
<td></td>
</tr>
<tr>
<td>Includes modified starch, hydrolyzed protein, sweeteners, sugars, spice carriers</td>
<td></td>
</tr>
<tr>
<td><strong>Egg &amp; Egg Products</strong></td>
<td></td>
</tr>
<tr>
<td>liquid and powders</td>
<td></td>
</tr>
<tr>
<td><strong>Fish</strong></td>
<td></td>
</tr>
<tr>
<td>Includes any and all species of fresh and salt water fish</td>
<td></td>
</tr>
<tr>
<td><strong>Garlic</strong></td>
<td></td>
</tr>
<tr>
<td>Dehydrated, powdered, granules, and flakes</td>
<td></td>
</tr>
<tr>
<td><strong>Gluten</strong></td>
<td></td>
</tr>
<tr>
<td>Wheat, rye, barley, oats, flour, etc.</td>
<td></td>
</tr>
<tr>
<td><strong>Milk &amp; Dairy Products</strong></td>
<td></td>
</tr>
<tr>
<td>Includes whey, lactose, cheese, casein, spice carriers, milk, cream, etc.</td>
<td></td>
</tr>
<tr>
<td><strong>Monosodium Glutamate</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Peanuts, Peanut Oil &amp; Peanut Derived Items</strong></td>
<td></td>
</tr>
<tr>
<td>Peanut meal, flour &amp; ground nuts, szechwan sauce, mandelona nuts, etc.</td>
<td></td>
</tr>
<tr>
<td><strong>Sesame Seeds &amp; Sesame Oil</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Crustaceans</strong></td>
<td></td>
</tr>
<tr>
<td>Shrimp, lobster, rock lobster, crab, crayfish, and products made from them</td>
<td></td>
</tr>
<tr>
<td><strong>Mollusks</strong></td>
<td></td>
</tr>
<tr>
<td>Clams, mussels, oysters, scallops, and products made from them</td>
<td></td>
</tr>
<tr>
<td><strong>Soy</strong></td>
<td></td>
</tr>
<tr>
<td>Includes soya powder, protein, oil, lecithin, tofu</td>
<td></td>
</tr>
<tr>
<td><strong>Sulfites</strong></td>
<td></td>
</tr>
<tr>
<td>Includes sulfur dioxide, sodium dithionite, chemicals that lists sulfite, etc.</td>
<td></td>
</tr>
<tr>
<td><strong>Tree Nuts</strong></td>
<td></td>
</tr>
<tr>
<td>Includes almonds, beechnuts, basil nuts, nutmeg, cashews, chestnuts, etc.</td>
<td></td>
</tr>
<tr>
<td><strong>Wheat</strong></td>
<td></td>
</tr>
<tr>
<td>Includes hydrolyzed wheat protein, flour, gluten flour, starches</td>
<td></td>
</tr>
<tr>
<td><strong>Mustard &amp; Mustard Oil</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lupin</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Celery</strong></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: June 25, 2022
Organic Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
GMO Status Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
Product Name: GUAIACOL NATURAL

Vigon Code: 507731

CAS #: 90-05-1

100%

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: June 25, 2022
Nutritional Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

Vigon International, LLC. certifies that, to the best of our knowledge, the product listed above does not contribute to the nutritional value of flavors due to their extremely low usage levels and therefore falls under the nutritional labeling exemption defined in Section 101.9(a) and (j) of Title 21 of the Code of Federal Regulations.

Sincerely,

.

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: June 25, 2022
Irradiation and Sewage Sludge Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
Heavy Metals and Pesticide Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
Stabilizer Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

Vigon International, LLC. declares that, to the best of our knowledge that the product listed above has been treated with:

<table>
<thead>
<tr>
<th>Stabilizer(s)</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

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: June 25, 2022
Continuing Product Guarantee

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
Dietary Preferences & Restrictions

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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

<table>
<thead>
<tr>
<th>Dietary Preference</th>
<th>Dietary Restrictions</th>
<th>Suitable?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vegans</strong></td>
<td>Do not eat meat, poultry, fish/seafood, eggs, dairy products, honey</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Lacto-Vegetarians</strong></td>
<td>Do not eat meat, poultry, fish/seafood, eggs, but do eat dairy products</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Ovo-Vegetarians</strong></td>
<td>Do not eat meat, poultry, fish/seafood, dairy products, but do eat eggs</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Vegetarians</strong></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: June 25, 2022
Animal Testing Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
Proposition 65 Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

Vigon International, LLC. certifies that the product above is **not listed** on the California's Safe Drinking Water and Toxic Enforcement Act of 1986, also known as Proposition 65.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: June 25, 2022
EU Declaration

Vigon Code: 507731
Product Name: GUAIACOL NATURAL

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><strong>Not Applicable: Contains no ingredients whose use is intended primarily for flavour.</strong></td>
</tr>
<tr>
<td><strong>Not Permitted: Contains ingredient(s) which are not permitted in flavours in the EU.</strong></td>
</tr>
</tbody>
</table>

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: June 25, 2022
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): GUAIA COL NATURAL/507731 Supplier Name and Address: Vigon International, LLC. 127 Airport Road East Stroudsburg, PA 18301 USA Type of flavor (select one or more as necessary): Protein Hydrolysate Compounded flavor Distillate Extracts Oleoresin Compounded WONF Isolate Other

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)?
   XYes □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 □No X N/A, no extraction solvents used
Please list any solvent(s) used in the production of this Natural Flavor Product:

NONE

*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:

X 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?

X Yes

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?

X Yes

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: 06/25/22
Nanomaterials

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE) Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
Product Name: GUAIACOL NATURAL

Vigon Code: 507731

- Is not restricted as such according to the Standards of the International Fragrance Association (IFRA) (up to and including the 50th amendment)
- Bears no IFRA specifications

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.

Sincerely,

Vigon Regulatory Department
regulatory@vigons.com
Date of Issue: June 25, 2022
Botanical Species

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

Botanical Species: Pine

Part of plant used: Root

Country of origin for the plant: Not applicable

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: June 25, 2022
## International Inventories

**Product Name:** GUAIACOL NATURAL

**Vigon Code:** 507731

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances and Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: June 25, 2022
Residual Solvents

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
EU Fragrance Allergen Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

The product listed above is in compliance with the European Directive 76/768/EEC established by the SCCNFP declared allergens. This product is free of these fragrance allergens.

Sincerely,

Vigon Regulatory Department
regulatory@vigom.com
Date of Issue: June 25, 2022
Melamine Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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@vigon.com
Date of Issue: June 25, 2022
Phthalate Statement

Product Name: GUAIACOL NATURAL

Vigon Code: 507731

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: June 25, 2022
Product Name: GUAIACOL NATURAL

Vigon Code: 507731

The product listed above is natural according to ISO 9235 definition below:

Natural Raw Material

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: June 25, 2022
Stable when stored in its original package, tightly sealed in a cool (46-90ºF) and dry location out of direct heat and light.

GUAIACOL NATURAL

INSTRUCTIONS FOR USE: Ask your employer for guidance regarding the safe use and handling of this product in your specific workplace environment based on the information provided in Vigon’s Safety Data Sheet (SDS).

HAZARD STATEMENT: Combustible liquid. Harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. Causes skin and eye irritation. Causes serious eye irritation. Causes serious eye irritation. Harmful to aquatic life.

PRECAUTIONARY STATEMENT: -PREVENTION- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.-RESPONSE- IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. 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. Call a POISON CENTER/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.-STORAGE- Store in a well-ventilated place.-DISPOSAL- Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical Name: GUAIACOL
CAS#: 90-05-1
Flash Point: 179ºF (82ºC)

Country of Origin: CHINA

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

STORAGE CONDITIONS:

Warning

PPE: B