Product Specification



Product Name: PEANUT CO2 EXTRACT WONF (WATER SOLUBLE)

Vigon Code: 503644

CAS Number: MIXTURE

FEMA Number: N/A

Characteristic:

Alcohol% (v/v) Density (@20c) Odor Refractive Index (@20c) Taste Test Color/appearance
 Specification:

 88.00
 98.00

 0.8000
 0.8300

 PASSES TEST
 1.3600

 1.3600
 1.3750

 PASSE TEST
 GOLDEN YELLOW LIQUID THAT WILL DARKEN WITH AGE.

Additional Product Information:

Flash Point: 61 °F

Shelf Life: 36 Months

Storage Conditions: Stable when stored in its original package, tightly sealed under refrigeration (35-45°F).

Effective Date: October 14, 2020

Printed Date: February 29, 2024



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| 1. IDENTIFICATION | | | |
|--|--|---|------------------------|
| Product Description: | PEANUT CO2 EXTRACT WONF (WATER SOLUBLE) | | |
| CAS # | MIXTURE | | |
| Other means of identification Vigon Item # | 503644 | | |
| 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 Onl | у | |
| <u>Company</u> | | 24 Hour Emergenc | y Response Information |
| Vigon International, LLC | | INFOTRAC (ACCT | # 78928); |
| 127 Airport Road | | 1-800-535-5053 W | |
| E. Stroudsburg, PA 18301 | | 1-352-323-3500 Ol | JTSIDE THE U.S.A. |
| For information call: 570-476-6300 | | | |
| Web Site: www.vigon.com | | | |
| Manufacturer/Importer/Supplier/Dis Manufacturer | tributor information | | |
| Company name Address | Vigon International, LLC 127 Airport Road E. Stroudsburg, PA 18301 United States | | |
| Telephone | For information call: | 570-476-6300 | |
| Website E-mail | www.vigon.com regulatory@vigon.com | | |
| Emergency phone number | INFOTRAC 1-800-535-5053 1-352-323-3500 | (ACCT# 78928); WITHIN THE U.S OUTSIDE THE U | |
| 2. HAZARD(S) IDENTIFICAT | ΓΙΟΝ | | |
| Physical hazards | Flammable liquids | | Category 2 |
| Health hazards | Acute toxicity, oral | | Category 5 |
| | Serious eye damage/eye in | ritation | Category 2A |
| Environmental hazards | Not classified. | | |
| Label elements | | | |



Danger

Signal word Hazard statement

Highly flammable liquid and vapor. May be harmful if swallowed. Causes serious eye irritation.



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| Precautionary statement | |
|--|--|
| Prevention | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Keep cool. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash thoroughly after handling. Wear eye protection/face protection. |
| Response | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. |
| Storage | Store in a well-ventilated place. Keep cool. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | 11% of the mixture consists of component(s) of unknown acute dermal toxicity. 11% of the mixture consists of component(s) of unknown acute inhalation toxicity. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------|----------------------------|------------|-----------|
| ETHYL ALCOHOL | ethanol | 64-17-5 | 86 - < 92 |
| | ethyl hydroxide | | |
| | 1-hydroxyethane | | |
| | methyl carbinol | | |
| PEANUT OIL | | 8002-03-7 | 2 - < 4 |
| ETHYL ACETATE | Acetic acid ethyl ester | 141-78-6 | 2.1 |
| | ETHYL ESTER OF ACETIC ACID | | |
| | VINEGAR NAPHTHA | | |
| | Acetic ether | | |
| | Ethyl ethanoate | | |
| | Acetoxyethane | | |

Other components below reportable levels

5 - < 10

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. |



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| Most important symptoms/effects, acute and delayed | Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. |
|--|---|
| 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 Unsuitable extinguishing media | Water spray, fog, CO2, dry chemical, or alcohol resistant foam. 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

Methods and materials for containment and cleaning up

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.

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.

Large Spills: Dike the spilled material, where this is possible. Collect and dispose of spillage as indicated in section 13 of the SDS.

Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains.

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

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading.



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

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, | Keep container closed. Handle containers with care. Open slowly in order to control possible |
| including any incompatibilities | pressure release. Store in a cool, well-ventilated area. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

| Components | for Air Contaminants (29 CFR 1910.100 Type | Value | |
|---|---|---|--|
| ETHYL ACETATE (CAS 141-78-6) | PEL | 1400 mg/m3 | |
| | | 400 ppm | |
| ETHYL ALCOHOL (CAS 64-17-5) | PEL | 1900 mg/m3 | |
| | | 1000 ppm | |
| US. ACGIH Threshold Limit | Values | | |
| Components | Туре | Value | |
| ETHYL ACETATE (CAS 141-78-6) | TWA | 400 ppm | |
| ETHYL ALCOHOL (CAS 64-17-5) | STEL | 1000 ppm | |
| | | | |
| US. NIOSH: Pocket Guide to | Chemical Hazards | | |
| , | Chemical Hazards Type | Value | |
| US. NIOSH: Pocket Guide to | | Value 1400 mg/m3 | |
| US. NIOSH: Pocket Guide to Components ETHYL ACETATE (CAS | Туре | | |
| US. NIOSH: Pocket Guide to Components ETHYL ACETATE (CAS | Туре | 1400 mg/m3 | |
| US. NIOSH: Pocket Guide to Components ETHYL ACETATE (CAS 141-78-6) ETHYL ALCOHOL (CAS | Type TWA | 1400 mg/m3 400 ppm | |
| US. NIOSH: Pocket Guide to Components ETHYL ACETATE (CAS 141-78-6) ETHYL ALCOHOL (CAS | Type TWA | 1400 mg/m3 400 ppm 1900 mg/m3 1000 ppm | |
| US. NIOSH: Pocket Guide to Components ETHYL ACETATE (CAS 141-78-6) ETHYL ALCOHOL (CAS 64-17-5) | Type TWA TWA No biological exposure limits noted | 1400 mg/m3 400 ppm 1900 mg/m3 1000 ppm | |
| US. NIOSH: Pocket Guide to Components ETHYL ACETATE (CAS 141-78-6) ETHYL ALCOHOL (CAS 64-17-5) ogical limit values ropriate engineering controls | Type TWA TWA No biological exposure limits noted | 1400 mg/m3 400 ppm 1900 mg/m3 1000 ppm for the ingredient(s). pment to stay below exposure limits. | |



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| 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. |
| рН | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | 172.4 °F (78 °C) tested substance:Ethanol (literature value) |
| Flash point | 61.0 °F (16.1 °C) Closed Cup |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explose | sive limits |
| Explosive limit - lower (%) | 3.4 % (V) tested substance:Ethanol (literature value) |
| Explosive limit - upper (%) | 15 % (V) tested substance:Ethanol (literature value) |
| Vapor pressure | 59 mbar at 20 °C tested substance:Ethanol (literature value) |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Soluble |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 797 °F (425 °C) tested substance:Ethanol (literature value) |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | 0.82 g/cm3 at 20 °C |
| Explosive properties | Not explosive. |
| Molecular formula | Not applicable |
| Oxidizing properties | Not oxidizing. |



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Specific gravity

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0.82 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. |
| Hazardous decomposition products | No hazardous decomposition products if stored and handled as indicated. |

11. TOXICOLOGICAL INFORMATION

| Information on likely routes of exposure | | | |
|--|---|--|--|
| Inhalation | Prolonged inhalation may be harmful. | | |
| Skin contact No adverse effects due to skin contact are expected. | | | |
| Eye contact Causes serious eye irritation. | | | |
| Ingestion | May be harmful if swallowed. | | |
| Symptoms related to the physical, chemical and toxicological characteristics | Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. | | |

Information on toxicological effects

| Acute toxicity | May be harmful if swallowed. | |
|--------------------------------------|---|-------------------------------|
| Product | Species | Test Results |
| PEANUT CO2 EXTRACT WO | NF (WATER SOLUBLE) | |
| Acute | | |
| Oral | | |
| | | 3750 mg/kg Calculation method |
| Components | Species | Test Results |
| ETHYL ALCOHOL (CAS 64-17 | 7-5) | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 15800 mg/kg |
| Skin corrosion/irritation | Prolonged skin contact may cause temp | porary irritation. |
| Serious eye damage/eye irritation | Causes serious eye irritation. | |
| Respiratory or skin sensitizatio | n | |
| Respiratory sensitization | Not a respiratory sensitizer. | |
| Skin sensitization | This product is not expected to cause s | kin sensitization. |



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| 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. | | |
| OSHA Specifically Regulated | Substances (29 CFR 1910.1001-1053) | |
| Not listed. | | |
| US. National Toxicology Program (NTP) Report on Carcinogens | | |
| Not listed. | | |
| 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. | |
| Chronic effects | Prolonged inhalation may be harmful. | |

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| | | | 0 0 | |
|---|---|--|--------------------------------------|--|
| Components | | Species | Test Results | |
| ETHYL ACETATE (CAS 14 | 1-78-6) | | | |
| Aquatic | lic | | | |
| Acute | | | | |
| Fish | LC50 | Indian catfish (Heteropneustes fossilis) | >= 200.32 - <= 225.42 mg/l, 96 hours | |
| Persistence and degradability | Test subs literature Chemical Test subs literature Biochemic Concentra | Chemical Oxygen Demand (COD) 1700 mg/g Test substance: Ethanol literature Biochemical Oxygen Demand (BOD) 1000 mg/g Concentration: (BOD5) Test substance: Ethanol | | |
| Bioaccumulative potential | | | | |
| Partition coefficient n-octanol / water (log Kow) | | | | |
| ETHYL ACETATE | 0.73 | | | |
| ETHYL ALCOHOL | -0.31 | | | |
| Mobility in soil | No data a | vailable. | | |
| Other adverse effects | Exts No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. | | | |



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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

| AD | N | |
|-----|------------------------------|---|
| | UN number | 1170 |
| | UN proper shipping name | ETHANOL SOLUTION |
| | Transport hazard class(es) | 3 |
| | Subsidiary class(es) | - |
| | Packing group | II |
| | Environmental hazards | No |
| | Labels required | 3 |
| AD | R | |
| | UN number | 1170 |
| | UN proper shipping name | ETHANOL SOLUTION |
| | Transport hazard class(es) | 3 |
| | Subsidiary class(es) | - |
| | Packing group | ll |
| | Environmental hazards | No |
| | Labels required | 3 |
| RIE |) | |
| | UN number | 1170 |
| | UN proper shipping name | ETHANOL SOLUTION |
| | Transport hazard class(es) | 3 |
| | Subsidiary class(es) | - |
| | Packing Group | II |
| | Environmental Hazards | No |
| | Labels required | 3 |
| | Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| DO | Т | |
| BU | LK | |
| | UN number | 1170 |
| | Proper shipping name | ETHANOL SOLUTION |
| | Hazard class | 3 |
| | Packing group | II |
| | | |



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| Environmental hazards Marine pollutant | No |
|--|------------------|
| Packaging exceptions | 4b, 150 |
| Packaging bulk | 242 |
| Labels required | 3 |
| DOT | |
| NON-BULK | |
| UN number | 1170 |
| Proper shipping name | ETHANOL SOLUTION |
| Hazard class | 3 |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No |
| Packaging exceptions | 4b, 150 |
| Packaging non bulk | 202 |
| Labels required | 3 |
| ΙΑΤΑ | |
| UN number | 1170 |
| UN proper shipping name | ETHANOL SOLUTION |
| Transport hazard class(es) | 3 |
| Subsidiary class(es) | - |
| Packing group | II |
| Environmental hazards | No |
| Labels required | 3 |
| IMDG | |
| UN number | 1170 |
| UN proper shipping name | ETHANOL SOLUTION |
| Transport hazard class(es) | 3 |
| Subsidiary class(es) | - |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No |
| Labels required | 3 |
| Transport in bulk according to Annex II of MARPOL | Not applicable. |
| 73/78 and the IBC Code | |



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ADN; ADR; DOT BULK; DOT NON-BULK; IATA; IMDG; RID



15. REGULATORY INFORMATION

| 15. REGULATORY INFOR | MATION | |
|--|---|--|
| US federal regulations | This product is a "Hazard Standard, 29 CFR 1910. | lous Chemical" as defined by the OSHA Hazard Communication 1200. |
| Toxic Substances Control Ac | t (TSCA) | |
| TSCA Section 12(b) Exp | ort Notification (40 CFR 70 | 7, Subpt. D) |
| Not regulated. | | |
| CERCLA Hazardous Substar | nce List (40 CFR 302.4) | |
| ETHYL ACETATE (CAS | 141-78-6) | Listed. |
| SARA 304 Emergency release | e notification | |
| Not regulated. | | |
| OSHA Specifically Regulated | Substances (29 CFR 1910 | .1001-1053) |
| Not listed. | | |
| Superfund Amendments and Rea SARA 302 Extremely hazard Not listed. | | ARA) |
| SARA 311/312 Hazardous chemical | Yes | |
| Classified hazard categories | Flammable (gases, aero Serious eye damage or e | • • • |
| SARA 313 (TRI reporting) Not regulated. | | |
| Other federal regulations | | |
| Clean Air Act (CAA) Section | 112 Hazardous Air Pollutan | ts (HAPs) List |
| Not regulated. | | |
| Clean Air Act (CAA) Section | 112(r) Accidental Release F | Prevention (40 CFR 68.130) |
| Not regulated. | | |
| Safe Drinking Water Act (SDWA) | Not regulated. | |
| FEMA Priority Substance | es Respiratory Health and S | afety in the Flavor Manufacturing Workplace |
| ETHYL ACETATE (ETHYL ALCOHOL (| , | Low priority Low priority |
| | | |



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US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) ETHYL ACETATE (CAS 141-78-6)

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

| Issue date | 11-20-2015 |
|-----------------------|--|
| Revision date | 08-23-2022 |
| Version # | 03 |
| HMIS® ratings | Health: 2 Flammability: 3 Physical hazard: 0 |
| List of abbreviations | ACGIH: American Conference of Governmental Industrial Hygienists. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstract Service. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. IMDG: International Maritime Dangerous Goods. MARPOL: International Convention for the Prevention of Pollution from Ships. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. TWA: Time Weighted Average. |
| Disclaimer | Vigon International, LLC 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 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 regulatio |



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Product and Company Identification: Alternate Trade Names HAZARD(S) IDENTIFICATION: Disposal HAZARD(S) IDENTIFICATION: Prevention HAZARD(S) IDENTIFICATION: Response ACCIDENTAL RELEASE MEASURES: Methods and materials for containment and cleaning up HANDLING AND STORAGE: Conditions for safe storage, including any incompatibilities EXPOSURE CONTROLS/PERSONAL PROTECTION: Appropriate engineering controls EXPOSURE CONTROLS/PERSONAL PROTECTION: Other EXPOSURE CONTROLS/PERSONAL PROTECTION: PPE Symbols Physical & Chemical Properties: Multiple Properties REGULATORY INFORMATION: California Proposition 65 REGULATORY INFORMATION: Safe Drinking Water Act (SDWA) OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION: Reference s OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION: List of abbreviations



| Product Code | Product Name | Status | Restriction | UKD# |
|--------------|---|--------|-------------------------|-------------|
| 503644 | Peanut CO2 Extract WONF (Water Soluble) | Parve | Kof-K symbol required 🔄 | KFRAR3X0LAU |



Rabbi Avram Ossey Rabbinic Administrator 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. Page 1 of 1



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: November 21, 2023

Document #: 6718.12506.II233099

| Company Name & Address: Vigon Intern | national, LLC 127 Airport Road East Stroudsburg, 1 | Pennsylvania 18301 USA | |
|--|--|--|-----------------------|
| Plant Name & Address: Vigon Intern | national, LLC 127 Airport Road East Stroudsburg, 1 | Pennsylvania 18301 USA | |
| ProductName | Product Code | Halal-ID | Product Certificate # |
| 1. PEANUT CO2 EXTRACT WONF (WATE | ER SOLUBLE) 503644 | A29753 | HC-23VIPP88 |
| Muhammad Munir Chaudry, Ph.D. President | This Certificate is valid until January | 31, 2025 and subject to renewal at that time. | MEMBER Page 1 of |



Vigon Code: 503644

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 Code: 503644

Vigon International, LLC. certifies that the product listed above is declared *natural* and <u>meets</u> 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 Code: 503644

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

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

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

Sincerely,

GMO Status Statement



Product Name: PEANUT CO2 EXTRACT WONF (WATER SOLUBLE)

Vigon Code: 503644

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

Sincerely,



Vigon Code: 503644

Vigon International, LLC. declares that the product listed above has <u>not</u> 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 Code: 503644

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,

Stabilizer Statement



Product Name: PEANUT CO2 EXTRACT WONF (WATER SOLUBLE)

Vigon Code: 503644

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 Code: 503644

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 Code: 503644

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

| Vegans Do not eat meat, poultry, fish/seafood,eggs,dairy products, honey | |
|---|---|
| Lacto-Vegetarians Do not eat meat, poultry, fish/seafood, eggs, but do eat dairy products | ~ |
| Ovo-Vegetarians Do not eat meat, poultry, fish/seafood, dairy products, but do eat eggs | ~ |
| Vegetarians Do not eat meat, poultry, fish/seafood, but do eat dairy products and eggs | |

Sincerely,



Vigon Code: 503644

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.

Sincerely,



Vigon Code: 503644 Product Name: PEANUT CO2 EXTRACT WONF (WATER SOLUBLE)

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.

| | Flavouring Preparation |
|---|--|
| | Natural Flavouring Substance |
| | Flavouring Substance |
| | Thermal Process Flavouring |
| | Smoke Flavouring |
| | Flavour Precursor |
| ~ | Other Flavouring |
| | Not Applicable: Contains no ingredients whose use is intended primarily for flavour. |
| | Not Permitted: Contains ingredient(s) which are not permitted in flavours in the EU. |

Sincerely,

Vigon Regulatory Department regulatory@vigon.com Date of Issue: February 29, 2024

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

Nanomaterials



Product Name: PEANUT CO2 EXTRACT WONF (WATER SOLUBLE)

Vigon Code: 503644

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 producted 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 100nm but retain properties that are characteristic of the nanoscale.

Sincerely,

Vigon Code: 503644

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,

Residual Solvents



Product Name: PEANUT CO2 EXTRACT WONF (WATER SOLUBLE)

Vigon Code: 503644

Based on our knowledge of the production process(es), raw materials and equipment used, there is the potential for the following residual solvent(s) in this product:

Supercritical Carbon Dioxide 0.0000 %

Sincerely,

EU Fragrance Allergen Statement



Product Name: PEANUT CO2 EXTRACT WONF (WATER SOLUBLE)

Vigon Code: 503644

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,

Melamine Statement



Product Name: PEANUT CO2 EXTRACT WONF (WATER SOLUBLE)

Vigon Code: 503644

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

Sincerely,

Phthalate Statement



Product Name: PEANUT CO2 EXTRACT WONF (WATER SOLUBLE)

Vigon Code: 503644

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 International, LLC. 127 Airport Road East Stroudsburg, PA 18301-9629 U +1.570.476.6300 sales@vigon.com | |
|---|-----------------------------|
| | Chemical Name: |
| PEANUT CO2 EXTRACT WON | NF CAS#: MIXTURE |
| (WATER SOLUBLE) | Flash Point: 61°F (16°C) |
| | Allergens: PEANUT |
| Code: 503644 ID #: EXAMPLE | Liters: 0.000 |
| KG Approx. Gross: []] []] []] [] [] [] [] | LB .000 Produced on: N/A |
| Approx. Tare: | 0.000 Best used before: N/A |
| Net: | .000 Lot #: EXAMPLE |
| STORAGE CONDITIONS: Stable when stored in its original package, tightly sealed | |

STORAGE CONDITIONS: Stable when stored in its original package, tightly sealed under refrigeration (35-45°F).

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: Highly flammable liquid and vapor. May be harmful if swallowed. Causes serious eye irritation.PRECAUTIONARY STATEMENT: -PREVENTION-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Keep cool. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash thoroughly after handling. Wear eye protection/face protection.-RESPONSE- IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.-STORAGE- Store well-ventilated place. Keep cool DISPOSAL- Dispose of contents/container in accordance with in а local/regional/national/international regulations.

