Product Specification



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

CAS Number: MIXTURE FEMA Number: N/A

<u>Characteristic:</u> <u>Specification:</u>

Citral% 60.00 90.00

Gas Chromatograph PASSES TEST

Odor CHARACTERISTIC ODOR.

Refractive Index (@20c) 1.4760 1.4890

Specific Gravity (@25c) 0.8880 0.9080

Color/appearance LIGHT YELLOW TO YELLOW LIQUID.

Additional Product Information:

Flash Point: 185 °F Shelf Life: 12 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: August 8, 2019

Printed Date: February 29, 2024



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 1 of 14

Version # 03 Print Date: 08-09-2018

1. IDENTIFICATION

Product Description: LEMON OIL TERPENELESS WONF

CAS # MIXTURE

Other means of identification

Vigon Item # 501335

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

<u>Company</u> <u>24 Hour Emergency Response Information</u>

Vigon International, Inc. INFOTRAC (ACCT# 78928);

127 Airport Road 1-800-535-5053 WITHIN THE U.S.A. 1-352-323-3500 OUTSIDE THE U.S.A.

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 Flammable liquids Category 4

Health hazards Acute toxicity, oral Category 5

Acute toxicity, dermal Category 5
Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A Sensitization, skin Category 1

Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, Category 2

acute hazard

Hazardous to the aquatic environment,

long-term hazard

Category 2



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 2 of 14

Version # 03 Print Date: 08-09-2018

Label elements



Signal word Dange

Hazard statement Combustible liquid. May be harmful if swallowed. May be fatal if swallowed and enters airways.

Harmful in contact with skin. Causes skin irritation. Causes skin and eye irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life. Toxic to aquatic life with

long lasting effects.

Precautionary statement

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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 protective

gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. 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 or rash 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. Collect spillage.

Storage Store in a well-ventilated place. Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 19.15% of the mixture consists of component(s) of unknown acute dermal toxicity. 5.14% of the

mixture consists of component(s) of unknown acute hazards to the aquatic environment. 19.15%

of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
CITRAL	2,6- OCTADIENAL, 3,7-DIMETHYL-	5392-40-5	50 - < 70	
	2,6- dimethyl octadien-2,6-al-8			
	3,7-DIMETHYL-2,6-OCTADIENAL			
	3,7- dimethylocta-2,6-dienal			
CARVENE	DIPENTENE	5989-27-5	10 - < 20	
	(+)-P-MENTHA-1,8-DIENE			
	(R)-(+)-Limonene			
	(R)-4-Isopropenyl-1-methyl-1-cyclohexen			
	e 1- methyl-4-prop-1-en-2-ylcyclohexene			



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 3 of 14

Version # 03 Print Date: 08-09-2018

Chemical name	Common name and synonyms	CAS number	%
GERANYL ACETATE	geranyl ethanoate 2,6-DIMETHYL-2,6-OCTADIENE-8-YL ACETATE 3,7-DIMETHYL-2-TRANS-6-OCTADIENY L ACETATE [(2E)-3,7- dimethylocta-2,6-dienyl] acetate	105-87-3	10 - < 20
GERANIOL	3,7-DIMETHYL-2,6-OCTADIEN-1-OL (2E)-3,7- dimethylocta-2,6-dien-1-ol LEMONOL GERANYL ALCOHOL	106-24-1	1 - < 10
PINENE BETA	7,7-dimethyl-4-methylidenebicyclo[3.1.1] heptane (1)-6,6- dimethyl-2-methylene bicyclo(3.1.1) heptane	127-91-3	1 - < 10
TERPINEOL	2-(4-methyl-1-cyclohex-3-enyl)propan-2-o I P-MENTHENOL (ISOMERENGEMISCH) TERPINEOL (ISOMERENGEMISCH)	8000-41-7	1 - < 10
PINENE ALPHA	dextro,laevo-pin-2(3)-ene 2,6,6 - trimethyl bicyclo-3,1,1-2-heptene 4,7,7- trimethylbicyclo[3.1.1]hept-3-ene	80-56-8	0.1< 1

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

Aspiration may cause pulmonary edema and pneumonitis. 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 informationEnsure 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.



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 4 of 14

Version # 03 Print Date: 08-09-2018

Use water spray to cool unopened containers.

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

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.

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.



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 5 of 14

Version # 03 Print Date: 08-09-2018

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
CITRAL (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapor.
PINENE ALPHA (CAS 80-56-8)	TWA	20 ppm	
PINENE BETA (CAS 127-91-3)	TWA	20 ppm	
US. Workplace Environmental Expo	osure Level (WEEL) Guides		
Components	Туре	Value	
CARVENE (CAS 5989-27-5)	TWA	165.5 mg/m3	

30 ppm

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

(typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. 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 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.

Contaminated work clothing should not be allowed out of the workplace.

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.



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 6 of 14

Print Date: 08-09-2018 Version #03

pН Not available.

Not available. Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Flash point

185.0 °F (85.0 °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 0.15 hPa at 20 °C Calculated (55.0 %)

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Decomposition temperature Not available. Not available. Viscosity

Other information

Bulk density 904.36 kg/m3 at 20 °C

Explosive properties Not explosive. Molecular formula Not applicable Oxidizing properties Not oxidizing. Specific gravity 0.9 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.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products if stored and handled as indicated.



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 7 of 14

Version # 03 Print Date: 08-09-2018

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion May be harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or

vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. 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 May be fatal if swallowed and enters airways. Harmful in contact with skin.

Components Species Test Results

CARVENE (CAS 5989-27-5)

Acute

Dermal

LD50 Rabbit 5 g/kg

Oral

LD50 Rat 4400 mg/kg

CITRAL (CAS 5392-40-5)

Acute

Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat 4950 mg/kg

GERANIOL (CAS 106-24-1)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

Oral

LD50 Rat 3600 mg/kg

PINENE ALPHA (CAS 80-56-8)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 8 of 14

Version # 03 Print Date: 08-09-2018

Components Species Test Results

PINENE BETA (CAS 127-91-3)

Acute Oral

LD50 Rat 4700 mg/kg

TERPINEOL (CAS 8000-41-7)

Acute

Dermal

LD50 Rat > 2000 mg/kg OECD 402

Oral

LD50 Mouse 5420 mg/kg

Rat > 2000 mg/kg OECD 401

Skin corrosion/irritation Causes skin irritation.

May cause skin irritation and/or dermatitis.

May cause skin irritation in susceptible persons.

Serious eye damage/eye Causes serious eye irritation.

Substitute of the substitute o

irritation Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Causes sensitization.

Germ cell mutagenicityNo 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 1910.1001-1052)

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 May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 9 of 14

Version # 03 Print Date: 08-09-2018

12. ECOLOGICAL INFORMATION

otoxicity	Toxic to a	equatic life with long lasting effects.	
Components		Species	Test Results
CARVENE (CAS 5989	9-27-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 0.619 - < 0.796 mg/l, 96 hours
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)	35 mg/l, 4 days
Other	EC50	Activated Sludge	3.94 mg/l
CITRAL (CAS 5392-40	0-5)		
Acute			
Other	EC20	Activated sludge of a predominantly domestic sewage	68 mg/l, 0.5 hours OECD Guideline 2 aquatic
Aquatic			
Other	EC50	Bacterium	2100 mg/l, 0.5 hours DIN 38412 Part (draft) aquatic - The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The det of the toxic effect relate to the nomina concentration.
Acute			
Algae	EC50	Green algae (Chlamydomonas variabilis)	103.8 mg/l, 72 hours DIN 38412 Part static - The product has low solubility the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.
Crustacea	EC50	Daphnia magna	7 mg/l, 48 hours Directive 79/831/EE static - The product has low solubility the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.
Fish	LC50	Ide, silver or golden orfe (Leuciscus idus)	> 4.6 - < 10 mg/l, 96 hours DIN 3841 Part 15 static - The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The det of the toxic effect relate to the nomina concentration.



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 10 of 14

Version # 03 Print Date: 08-09-2018

Components		Species	Test Results
GERANIOL (CAS 106-24	-1)		
Other	EC50	Activated sludge of a predominantly domestic sewage	70 mg/l, 0.5 hours
Aquatic			
Algae	EC50	Green algae (Desmodesmus subspicatus)	13.1 mg/l, 72 hours
Crustacea	EC50	Daphnia magna	10.8 mg/l, 48 hours
Fish	LC50	Danio rerio	22 mg/l, 96 hours
		Fathead minnow (Pimephales promelas)	> 2.7 - < 3.8 mg/l, 96 hours
GERANYL ACETATE (CA	AS 105-87-3)		
Aquatic			
Algae	EC50	Green algae (Chlamydomonas variabilis)	3.72 mg/l, 72 hours OECD Guideline 201 static. The statement of the toxic effect relates to the analytically determined concentration.
Crustacea	EC50	Daphnia magna	14.1 mg/l, 48 hours Directive 84/449/EEC, C.2 static. The statement of the toxic effect relates to the analytically determined concentration.
Fish	LC50	Fish	68.12 mg/l, 96 hours Cyprinus carpio. OECD Guideline 203 static The product has not been tested. The statement has been derived from products of a similar structure or composition.
Other	EC10	Bacterium	> 10000 mg/l, 0.5 hours DIN 38412 Part 27 (draft) aquatic. The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. Ar aqueous solution prepared with solubilizers has been tested.
PINENE ALPHA (CAS 80)-56-8)		
Aquatic			
Crustacea	LC50	Daphnia magna	41 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.28 mg/l, 96 hours
TERPINEOL (CAS 8000-	41-7)		
Aquatic			
Crustacea	EC50	Daphnia	> 62 - < 80 mg/l, 96 h OECD 203
Crustacea			

Persistence and degradability



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 11 of 14

Version # 03 Print Date: 08-09-2018

Biodegradability

Percent degradation (Aerobic biodegradation)

GERANIOL > 90 % OECD 301A (new version)(aerobic), activatied

sludge, domestic DOC reduction, Readily biodegradable

(according to OECD criteria)

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

CARVENE 4.232 PINENE ALPHA 4.83

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 instructionsDo 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

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CARVENE, PINENE BETA)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III
Environmental hazards Yes
Labels required 9

ADR

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CARVENE, PINENE BETA)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III
Environmental hazards Yes
Labels required 9

RID

UN number 3082



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 12 of 14

Version # 03 Print Date: 08-09-2018

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CARVENE, PINENE BETA)

Transport hazard class(es) Subsidiary class(es) **Packing Group** Ш **Environmental Hazards** Yes Labels required

Read safety instructions, SDS and emergency procedures before handling. Special precautions for user

DOT **BULK**

> **UN number** NA1993

Proper shipping name COMBUSTIBLE LIQUID, N.O.S. (CARVENE, PINENE BETA)

Hazard class Combustible liq

Packing group Ш

Environmental hazards

Marine pollutant Yes Packaging exceptions 150 242 Packaging bulk Labels required None

DOT

NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

UN number

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CARVENE, PINENE BETA)

Transport hazard class(es) 9 Subsidiary class(es) Ш Packing group

Environmental hazards

Marine pollutant Yes Labels required

Transport in bulk according

Not applicable.

to Annex II of MARPOL 73/78 and the IBC Code

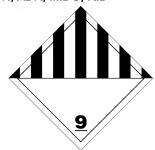


501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 13 of 14

Version # 03 Print Date: 08-09-2018

ADN; ADR; IMDG; RID



Marine pollutant



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.

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

Yes

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

categories

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

Aspiration hazard



501335 LEMON OIL TERPENELESS WONF

Revision Date: 08-09-2018 Page 14 of 14

Version # 03 Print Date: 08-09-2018

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

Not regulated.

(SDWA)

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
 08-27-2015

 Revision date
 08-09-2018

Version # 03

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 informationThis document has undergone significant changes and should be reviewed in its entirety.



Date: February 28, 2024 ד"ט בּאָדָר א׳ תשפ״ד Kof-K ID: K-0000507

Certificate ID: ENPD4-5NDKP

Product Count: 1

Kosher Certificate



This certificate is valid through

12/31/2024

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.

Product Code	Product Name	Status	Restriction	UKD#
501335	LEMON OIL TERPENELESS WONF	Parve	Kof-K symbol required ত্রি	KF5A5UBPD3G



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





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.II233226

Company Name & Address: Vigon International, LLC 127 Airport Road East Stroudsburg, Pennsylvania 18301 USA

Plant Name & Address: Vigon International, LLC 127 Airport Road East Stroudsburg, Pennsylvania 18301 USA

ProductName Product Code Halal-ID Product Certificate #

1. LEMON OIL TERPENELESS WONF 501335 A40570 HC-23VIZU17

Muhammad Munir Chaudry, Ph.D. President





This Certificate is valid until **January 31, 2025** and subject to renewal at that time.



Page 1 of 1

Food Grade Certification



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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,

US - Natural Status Certificate



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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,

• azelis VIGO

Allergen/Sensitive Agents Identification Sheet

Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

* 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	
SOY	
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: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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

Sincerely,

Nutritional Statement



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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,

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Irradiation and Sewage Sludge Statement



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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,

Stabilizer Statement



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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

Stabilizer(s) Percentage
NONE 0.0000

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,

Continuing Product Guarantee



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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,

Dietary Preferences & Restrictions



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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,

Animal Testing Statement



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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,

EU Declaration



Vigon Code: 501335

Product Name: LEMON OIL TERPENELESS WONF

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,

Nanomaterials



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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,

Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE) Statement





Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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: February 29, 2024

Residual Solvents



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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

Sincerely,

EU Fragrance Allergen Statement



Product Name: LEMON OIL TERPENELESS WONF

Vigon Code: 501335

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

Citral 70.04 Geraniol 0.00 Limonene 2.17 Linalool 0.28

Sincerely,



Vigon International, LLC. 127 Airport Road East Stroudsburg, PA 18301-9629 USA +1.570.476.6300 | sales@vigon.com

Country of Origin: USA

LEMON OIL TERPENELESS WONF

MIXTURE CAS#:

185°F (85°C) Flash Point:

NONE Allergens: 0.000 Liters:

Code: 501335 ID #: EXAMPLE

> LB KG

0.000 | Produced on: N/A Approx. Gross: 0.000

0.000 | Best used before: 0.000 N/A Approx. Tare:

Net: **EXAMPLE** 0.000 Lot #: 0.000

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.

Chemical Name:

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. May be harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. Causes skin and eye irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. PRECAUTIONARY STATEME N T: -PREVENTION- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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 protective gloves/protective clothing/eye protection/face protection.-RESPONSE- IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. 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 or rash 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. Collect spillage.-STORAGE- Store in a well-ventilated place. Store locked up.-DISPOSAL- Dispose of contents/container in accordance with local/regional/national/international regulations.

