Product Specification



Product Name: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

CAS Number: MIXTURE

FEMA Number: N/A

Characteristic:

Aldehyde% Gas Chromatograph Optical Rotation (@25c) Odor Refractive Index (@20c) Specific Gravity (@25c) Flavor Color/appearance
 Specification:

 1.00
 2.50

 PASSES TEST
 20.00
 30.00

 CHARACTERISTIC LIME ODOR.
 1.4750
 1.4850

 0.8700
 0.8800
 PASSES TEST

 YELLOW LIQUID.
 Yere and a stream of the stream of th

Additional Product Information:

Flash Point: 147 °F

Shelf Life: 36 Months

Storage Conditions: Stable when stored in its original package, tightly sealed in a cool (46-90°F) and dry location out of direct heat and light.

Effective Date: March 3, 2015

Printed Date: July 17, 2024

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



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1. IDENTIFICATION Product Description: LIME OIL W.I. DISTILLED 2X CAS# MIXTURE Other means of identification 505034 Vigon Item # 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 24 Hour Emergency Response Information Company INFOTRAC (ACCT# 78928); Vigon International, Inc. 1-800-535-5053 WITHIN THE U.S.A. 127 Airport Road 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 Vigon International, Inc. Company name 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); WITHIN THE U.S.A. 1-800-535-5053 1-352-323-3500 OUTSIDE THE U.S.A.

2. HAZARD(S) IDENTIFICATION

Physical hazards	Flammable liquids	Category 4
Health hazards	Skin corrosion/irritation	Category 2
	Sensitization, skin	Category 1
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1

Label elements





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Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water. 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 waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	Common name and synonyms	CAS number	%
LIME OIL W.I. DISTILLED 2X		MIXTURE	100
Additional components			
Chemical name	Common name and synonyms	CAS number	%
CARVENE	DIPENTENE (+)-P-MENTHA-1,8-DIENE (R)-(+)-Limonene (R)-4-Isopropenyl-1-methyl-1-cyclohexen e 1- methyl-4-prop-1-en-2-ylcyclohexene	5989-27-5	30 - 40
TERPINEOL ALPHA	2-(4- methyl-1-cyclohex-3-enyl)propan-2-ol dextro,laevo-alpha-terpineol 1-methyl-4-isopropyl-1-cyclohexen-8-ol P-MENTH-1-EN-8-OL	98-55-5	10 - 20
TERPINENE GAMMA	4-iso propyl-4-methyl-1,4-cyclohexadiene p-Mentha-1,4-diene 1,4-p-Menthadiene 1-METHYL-4-(1-METHYLETHYL)- 1,4-CYCLOHEXADIENE	99-85-4	10 - 15
TERPINOLENE	cyclohexene, 1-methyl-4-(1-methylethylidene)- 1-METHYL-4-PROPAN-2-YLIDENE CYCLOHEXENE p- menth-1,4,8-diene P- METH-1-EN-8-YL-FORMATE 4-iso propylidene-1-methyl cylohexene	586-62-9	10 - 15



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Chemical name	Common name and synonyms	CAS number	%
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 - 4
BERGAMOTENE	6- methyl-2-methylene-6- (4-methyl-3-pentenyl) bicyclo(3.1.1)heptane 7-methyl-4-methylidene-7- (4-methylpent-3-enyl)bicyclo[3.1.1]heptan e	6895-56-3	1 - 3
BETA-BISABOLEN E	(4R)-1-methyl-4- (6-methylhepta-1,5-dien-2-yl)cyclohexene (1R)- bisabola-4,7(11),10(15)-triene 6- methyl-2-(4-methyl-3-cyclohexen-1-yl)- 1,5-heptadiene	495-61-4	1 - 3
FENCHOL	Bicyclo[2.2.1]heptan-2-ol, 1,3,3-trimethyl- 3,3-Dimethyl-8,9-dinorbornan-2-ol 1,5,5- trimethylbicyclo[2.2.1]heptan-6-ol	1632-73-1	0.5 - 1
PHELLANDRENE ALPHA	2- methyl-5-propan-2-ylcyclohexa-1,3-diene 1,3- cyclohexadiene, 2-methyl-5-(1-methylethyl)- p- mentha-1,5-diene 1- methyl-4-isopropyl-1,5-cyclohexadiene 2- methyl-5-propan-2-ylcyclohexa-1,3-diene	99-83-2	0.1 - 1
CINEOLE-1,4	1-iso propyl-4-methyl-7-oxabicyclo(2.2.1)hepta ne 4- methyl-1-propan-2-yl-7-oxabicyclo[2.2.1]h eptane 1,4-CINEOLE ISOCINEOLE	470-67-7	0 - 1
TERPINENE ALPHA	terpilene p-Mentha-1,3-diene 1- methyl-4-propan-2-ylcyclohexa-1,3-diene 4-iso-propyl-1-methyl-1,3-cyclohexadiene	99-86-5	0 - 1
CAMPHENE	dextro,laevo-camphene 6,6- dimethyl-5-methylidenebicyclo [2.2.1]heptane 2,2-DIMETHYL-3-METHYLENE NORBORNANE 3,3-DIMETHYL-2-METHYLENE NORCAMPHANE	79-92-5	0 - 0.5



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Additional components			
Chemical name	Common name and synonyms	CAS number	%
MYRCENE	3-METHYLENE-7-METHYL - 1,6-OCTADIENE 2-METHYL-6-METHYLENE - 2,7-OCTADIENE 7-Methyl-3-methyleneocta-1,6-diene 1,6-Octadiene, 7-methyl-3-methylene-	123-35-3	0 - 0.5
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 - 0.5
4. FIRST-AID MEASURES			
Inhalation	If breathing is difficult, remove to fresh air and ke For breathing difficulties, oxygen may be necess 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	Direct contact with eyes may cause temporary irritation.		
Indication of immediate medical attention and special treatment needed	Not available.		
General information	Ensure that medical personnel are aware of the r protect themselves. Show this safety data sheet		

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.	



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General fire hazards	I fire hazards Static charges generated by emptying package in or near flammable vapor may cause flash fire				
6. ACCIDENTAL RELEASE	6. ACCIDENTAL RELEASE MEASURES				
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.				
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.				
	The product is immiscible with water and will spread on the water surface.				
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers.				
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.				
	Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.				
Environmental precautions	Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.				
7. HANDLING AND STORA	AGE				
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				

	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

US. ACGIH Threshold Limit Values

	•			
Additional components	Туре	Value		
PINENE BETA	TWA	20 ppm		
(CAS 127-91-3)				
PINENE ALPHA	TWA	20 ppm		
(CAS 80-56-8)				
(



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Additional components	Туре	Value
CARVENE (CAS 5989-27-5)	TWA	165.5 mg/m3
		30 ppm
iological limit values	No biological exposure limits noted f	or the ingredient(s).
ppropriate engineering controls	Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.	
dividual protection measures, su Eye/face protection	ch as personal protective equipment Wear safety glasses with side shield	s (or goggles). Face shield is recommended.
Skin protection Hand protection	Chemical resistant gloves.	
Other	Use of an impervious apron is recom	imended.
Respiratory protection	Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection be provided.	
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.
eneral hygiene considerations	al hygiene considerations Always observe good personal hygiene measures, such as washing after handling the and before eating, drinking, and/or smoking. Routinely wash work clothing and protect 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	Not available.	
Flash point	147.0 °F (63.9 °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.	



SAFETY DATA SHEET 505034 LIME OIL W.I. DISTILLED 2X

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Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	0 Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Molecular formula	Not applicable
Oxidizing properties	Not oxidizing.
Specific gravity	0.88 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 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	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity



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Toxicological data Additional components	Species	Test Results
MYRCENE (CAS 123-35-3)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	> 11390 mg/kg
PINENE ALPHA (CAS 80-56-8	3)	
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
CINEOLE-1,4 (CAS 470-67-7)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	3100 mg/kg
TERPINENE ALPHA (CAS 99-	-86-5)	
Acute		
Oral		
LD50	Rat	1680 mg/kg
TERPINENE GAMMA (CAS 99	9-85-4)	
Acute		
Oral		
LD50	Rat	3650 mg/kg
TERPINOLENE (CAS 586-62-	9)	
Acute		
<i>Dermal</i>	Det	
LD50	Rat	> 5 ml/kg
Oral	Det	1200 malles
LD50	Rat	4390 mg/kg
TERPINEOL ALPHA (CAS 98-	-55-5)	
Acute Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral	ιασοι	
LD50	Rat	3700 mg/kg



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Additional components	Species	Test Results	
BETA-BISABOLENE (CAS 495-6	1-4)		
Acute			
Oral			
LD50	Rat	> 5000 mg/kg	
PINENE BETA (CAS 127-91-3)			
Acute			
Oral			
LD50	Rat	4700 mg/kg	
CARVENE (CAS 5989-27-5)			
Acute			
Dermal			
LD50	Rabbit	5 g/kg	
Oral			
LD50	Rat	4400 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritati	on.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritat	tion.	
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
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 E	valuation of Carcinogenicity		
Not listed.			
OSHA Specifically Regulated	l Substances (29 CFR 1910.1001-1052)		
Not regulated.			
US. National Toxicology Program (NTP) Report on Carcinogens			
Not listed.	lated Substances (29 CFR 1910.1001-1050)		
Not available.	aled Substances (29 Cr 1 1910.1001-1050)		
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.		



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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.

Additional components		Species	Test Results
CAMPHENE (CAS 79-92-5)		
Aquatic			
Algae	EC50	Green algae (Desmodesmus subspicatus)	> 1000 mg/l, 72 hours Method: OECD Test Guideline 201
Crustacea	EC50	Daphnia magna	0.72 mg/l, 48 hours Method: OECD Tes Guideline 202
Fish	LC50	Danio rerio	0.72 mg/l, 96 hours Method: OECD Tes Guideline 203
Other	EC50	Activated Sludge	> 1000 mg/l, 3 hours Method: OECD Test Guideline 209
PINENE ALPHA (CAS 80-5	6-8)		
Aquatic			
Crustacea	LC50	Daphnia magna	41 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.28 mg/l, 96 hours
TERPINOLENE (CAS 586-	62-9)		
Aquatic			
Crustacea	LC50	Daphnia magna	2.55 mg/l, 48 h
Fish	LC50	Pimephales promelas	0.72 mg/l, 96 h
CARVENE (CAS 5989-27-5	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
sistence and degradability	No data is	available on the degradability of this product.	
accumulative potential	No data available.		
pility in soil	No data av	ailable.	
er 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.



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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 cont emptied. Empty containers should be taken to an approved waste handling site for recyclin disposal.		

14. TRANSPORT INFORMATION

ADN

AD	N	
	UN number	3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIME OIL)
	Transport hazard class(es)	9
	Subsidiary class(es)	-
	Packing group	III
	Environmental hazards	Yes
	Labels required	9
AD	R	
	UN number	3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIME OIL)
	Transport hazard class(es)	9
	Subsidiary class(es)	-
	Packing group	III
	Environmental hazards	Yes
	Labels required	9
RIE)	
	UN number	3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIME OIL)
	Transport hazard class(es)	9
	Subsidiary class(es)	-
	Packing Group	III
	Environmental Hazards	Yes
	Labels required	9
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
DO	т	
BU	LK	
	UN number	NA1993
	Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (LIME OIL)
	Hazard class	Combustible liq
	Packing group	III
	Environmental hazards	
	Marine pollutant	Yes
	Packaging exceptions	150
	Packaging bulk	241
	Labels required	None



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DOT

NON-BULK

Not regulated as dangerous goods.

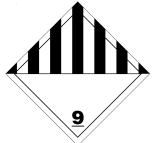
IATA

Not regulated as dangerous goods.

IMDG

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIME OIL)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Labels required	9
Transport in bulk according	Not applicable.
to Annex II of MARPOL	
73/78 and the IBC Code	

ADN; ADR; IMDG; RID



Marine pollutant



15. REGULATORY INFORMATION

US federal regulations

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated.



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US. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1050)						
Not available.	Not available.						
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not regulated.							
							TSCA Section 12(b) Export N
Not regulated.							
Superfund Amendments and Rea SARA 302 Extremely hazard Not listed.							
SARA 313 (TRI reporting) Not regulated.							
Other federal regulations							
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List						
Not regulated.							
Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)						
Not regulated.							
Safe Drinking Water Act (SDWA)	Not regulated.						
US state regulations California Proposition 65							
California Proposition 65	- Carcinogens & Reproductive Toxicity (CRT): Listed substance						
Not listed.							
16. OTHER INFORMATION	N, INCLUDING DATE OF PREPARATION OR LAST REVISION						
Issue date	05-06-2019						
Revision date	05-06-2019						

Revision date	05-06-2019
Version #	01
HMIS® ratings	Health: 2*
	Flammability: 2
	Physical hazard: 0



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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.





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.II232964

Company Name & Address: V	igon International, LL	2 127 Airport Road East Stroudsburg, Pennsy	lvania 18301 USA	
Plant Name & Address:	igon International, LLO	2 127 Airport Road East Stroudsburg, Pennsy	lvania 18301 USA	
ProductName		Product Code	Halal-ID	Product Certificate #
1. LIME OIL W.I. DISTILLED 22	X	505034	A16181	HC-23VICH52
Mahamma Hum Chaudry Muhammad Munir Chaudry, PhD. President	AND NUTRITION AND ORPORTS OF AMOUNT OR OR OR OF AMOUNT OF AMOUNT O	This Certificate is valid until January 31, 2(MEMBER Page 1 of 1
WWW.IFANCA.ORG	 IFANCA Head Office 	2004 Miner Street • Des Plaines, Illinois 600	16 USA • Tel: (847) 993-0034 • Fax: (84	17) 993-0038 D220135401ICL1E



Vigon Code: 505034

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: 505034

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: 505034

* 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,

Vigon Regulatory Department regulatory@vigon.com Date of Issue: July 17, 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

Organic Statement



Product Name: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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 <u>flavor</u> constituents in the natural flavor product named above meet the <u>FDA definition of a natural flavor</u>.

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 <u>without</u> the use of excluded (GMO) methods.

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

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

Sincerely,

Vigon Regulatory Department regulatory@vigon.com Date of Issue: July 17, 2024

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

GMO Status Statement



Product Name: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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

Sincerely,

Irradiation and Sewage Sludge Statement



Product Name: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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,

Stabilizer Statement



Product Name: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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: 505034

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: 505034

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: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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: 505034 Product Name: LIME OIL W.I. DISTILLED 2X

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,



NATURAL FLAVOR PRODUCT QUESTIONNAIRE - NATIONAL ORGANIC PROGRAM USE

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. <u>QAI may request additional information as needed.</u>

Identification of Natural Flavor Product (Name/code): LIME OIL W.I. DISTILLED 2X/505034

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	Extracts		Essential oil
Compounded flavor	Oleoresin		Isolate
Distillate	Compounded WONF	X	Other

Natural Flavor Product

A. Flavor constituents

1. Do all of the <u>flavor</u> constituents in the natural flavor product named above meet the <u>FDA definition of a natural flavor (see above)</u>?

X Yes No

2. Natural flavors authorized for use in NOP "organic" or "made with organic" products, <u>in addition</u>, 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
 N/A, no extraction solvents used

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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:

Χ	N/A, n	o carrier	system(s)	used
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Please list any preservative(s) used in this Natural Flavor Product or attach an Ingredient Statement:

XN/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 No
- **D.** Ionizing Radiation is prohibited for all uses involving food preservation, pest control and pathogen control in NOP products. Other radiation uses, including food inspection, are permitted providing such use meets applicable FDA regulations, which establish limitations applicable to all (organic and non-organic) food products.
 - > Ionizing radiation as described in 21 CFR 179.26 was **not** used in the processing of this natural flavor product? X Yes No

Please sign this questionnaire below

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

Company Name: Vigon International LLC.

Printed Name: Amanda Moyer Title: Manager of Regulatory

Signature: Amancha Muyur Date: 07/17/24

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Nanomaterials



Product Name: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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: 505034

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: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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

Citral (CAS 5392-40-5) 0.98% Limonene (CAS 138-86-3) 34.35% Linalool (CAS 78-70-6) 0.64%

Sincerely,

Melamine Statement



Product Name: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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: LIME OIL W.I. DISTILLED 2X

Vigon Code: 505034

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,