

# 500167 GERANIOL EXTRA

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Product Description:	GERANIOL EXTRA	GERANIOL EXTRA	
CAS #	106-24-1	106-24-1	
FEMA Number	2507		
Other means of identification Vigon Item #	500167		
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	For Manufacturing Use Only	
<u>Company</u>		24 Hour Emerge	ency Response Information
Vigon International, LLC		INFOTRAC (AC	CT# 78928);
127 Airport Road			3 WITHIN THE U.S.A.
E. Stroudsburg, PA 18301		1-352-323-3500	) OUTSIDE THE U.S.A.
For information call: 570-476-6	300		
Web Site: www.vigon.com			
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer			
Company name	Vigon International, LLC		
Address	127 Airport Road		
	E. Stroudsburg, PA 18301		
Telephone	United States For information call:	570-476-6300	
Website	www.vigon.com	370-470-0300	
E-mail	regulatory@vigon.com		
Emergency phone number	INFOTRAC	(ACCT# 78928	8);
	1-800-535-5053	WITHIN THE	U.S.A.
	1-352-323-3500	OUTSIDE THE	E U.S.A.
2. HAZARD(S) IDENTIFI	CATION		
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 5
	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irri	itation	Category 1
	Sensitization, skin		Category 1

**Environmental hazards** 

Label elements



hazard

Hazardous to the aquatic environment, acute Category 2



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Signal word	Danger
Hazard statement	Combustible liquid. May be harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life.
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. 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 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. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. 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	100% of the substance consists of component(s) of unknown acute inhalation toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
GERANIOL	3,7-DIMETHYL-2,6-OCTADIEN-1-OL	106-24-1	100
	(2E)-3,7- dimethylocta-2,6-dien-1-ol		
	LEMONOL		
	GERANYL ALCOHOL		

### 4. FIRST-AID MEASURES

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
Eye contact	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
Ingestion	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. 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.



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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**

**General information** 

Suitable extinguishing media	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.
Specific methods	Use water spray to cool unopened containers.
General fire hazards	Static charges generated by emptying package in or near flammable vapor may cause flash fire.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.
Methods and materials for containment and cleaning up	Collect and dispose of spillage as indicated in section 13 of the SDS.
	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.
	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
	Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.



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### 7. HANDLING AND STORAGE

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Precautions for safe handling	Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.
8. EXPOSURE CONTROLS	PERSONAL PROTECTION
Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.
Individual protection measures, su	ch 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.
рН	Not available.
Melting point/freezing point	5 °F (-15 °C)
Initial boiling point and boiling	446 °F (230 °C)
range	
Flash point	212.0 °F (100.0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.



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### Upper/lower flammability or explosive limits

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Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.01 mm Hg at 25 °C
Vapor density	5.3
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient	3.56
(n-octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.89 g/cm3 estimated at 20 °C
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Molecular formula	C10-H18-O
Molecular weight	154.24 g/mol
Oxidizing properties	Not oxidizing.
	Not oxidizing.
Specific gravity	0.88 at 20 °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	Knowledge about health hazard is incomplete.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	Causes serious eye damage.	
Ingestion	May be harmful if swallowed.	



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Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Signs and Symptoms of Exposure burning sensation, cough, wheezing, laryngitis, shortness of breath, headache
Information on toxicological effects	
Acute toxicity	May be harmful if swallowed.
Skin corrosion/irritation	Causes skin irritation. Irritation reactions were observed in rabbit in a 4 h semi-occlusive irritation test. Irritation was noted in guinea pig with the substance at conctrations between 0.5% and 100%, in an irritation test conducted prior to a Buehler sensitizing assay. Species:rabbit Result: Irritant. Method: OECD Guideline 404
Serious eye damage/eye irritation	Causes serious eye damage. Well defined signs of irritation were observed in a rabbit in an eye irritation test with the substance at 100%. The changes were not reversible after an observation period of 21 days. Species: rabbit Result: Risk of serious damage to eyes. Method: OECD Guideline 405 rabbit - Risk of serious damage to eyes 24 h - Directive 67/548/EEC, Annex V, B.5.
Respiratory or skin sensitization	
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.
Skin sensitization	May cause an allergic skin reaction. The substance was considered as a skin sensitizer in a Local Lymph Node Assay (LLNA) in a mouse. Species: mouse Result: sensitizing Method: OECD Guideline 429 guinea pig - May cause sensitisation by skin contact.
Germ cell mutagenicity	No mutagenicity was observed in bacteria (Ames tests). Polyploidization effects were noted at 0.125 mg/mL in dimethyl sulfoxide (DMSO) in an in vitro Mammalian Chromosome Aberration Test. Not genotoxic in a cytogenetic assay in Chinese hamster ovary cells. Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
IARC Monographs. Overall Eva	aluation of Carcinogenicity
Not listed.	
OSHA Specifically Regulated S	Substances (29 CFR 1910.1001-1053)
Not listed.	
	am (NTP) Report on Carcinogens
Not listed.	
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.



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Specific target organ toxicity -	Due to partial or complete lack of data the classification is not possible.
single exposure	The substance is not classified according to the limited effects observed in LD50 determination studies.
Specific target organ toxicity -	Due to partial or complete lack of data the classification is not possible.
repeated exposure	No effects were observed in rat in an oral 27 week study at 100 mg/kg/day.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.

### **12. ECOLOGICAL INFORMATION**

Ecotoxicity

Toxic to aquatic life.

Product		Species	Test Results
GERANIOL (CAS 106-24-1	)		
Other	EC50	Activated sludge of a predominantly domestic sewage	70, 0.5 hours
Aquatic			
Algae	EC50	Green algae (Desmodesmus subspicatus)	13.1, 72 hours
Crustacea	EC50	Daphnia magna	10.8, 48 hours
Fish	LC50	Danio rerio	22, 96 hours
Acute			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	>= 3.3 - <= 4.1 mg/l, 96 hours
	Degree o Evaulatio Aerobic biodeg	n)(aerobic), activatied	D criteria).
sludge, domestic I (according to OEC		n, Readily biodegradable	
oaccumulative potential	No data a	available.	
Partition coefficient n-octan	ol / water (log	Kow)	
3.56			
obility in soil	No data a	available.	
ther 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.		
3. DISPOSAL CONSIDE	RATIONS		
sposal instructions	into sewe	scharge into drains, water courses or onto the rs/water supplies. Do not contaminate ponds tainer. Dispose of contents/container in acco	, waterways or ditches with chemical or

Local disposal regulations Dispose in accordance with all applicable regulations.

local/regional/national/international regulations.



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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

### **14. TRANSPORT INFORMATION**

#### ADN

Not regulated as dangerous goods.

#### ADR

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

### DOT

BULK

Not regulated as dangerous goods.

### DOT

### NON-BULK

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### **15. REGULATORY INFORMATION**

US federal regulations

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

### Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

disposal.

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical



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Classified hazard	Flammable (gases, aerosols, liquids, or solids)
categories	Skin corrosion or irritation
	Serious eye damage or eye irritation
	Respiratory or skin sensitization

### 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)

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

Issue date	10-27-2014
Revision date	11-24-2021
Version #	06
HMIS® ratings	Health: 3 Flammability: 1 Physical hazard: 0
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 relates only to 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
Revision information	This document has undergone significant changes and should be reviewed in its entirety.

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