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### 1. IDENTIFICATION

Product Description: GERANIOL NATURAL FROM PALMAROSA

**CAS #** 106-24-1 **FEMA Number** 2507

Other means of identification

**Vigon Item #** 501525

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

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

Vigon International, LLC INFOTRAC (ACCT# 78928);

127 Airport Road 1-800-535-5053 WITHIN THE U.S.A.
E. Stroudsburg, PA 18301 1-352-323-3500 OUTSIDE THE U.S.A.

For information call: 570-476-6300

Web Site: www.vigon.com

### Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Vigon International, LLC Address 127 Airport Road

E. Stroudsburg, PA 18301

**United States** 

**Telephone** For information call: 570-476-6300

Website www.vigon.com

E-mail regulatory@vigon.com

Emergency phone number INFOTRAC (ACCT# 78928);

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

### 2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

**Health hazards** Acute toxicity, oral Category 5

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Label elements





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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 (2E)-3,7- dimethylocta-2,6-dien-1-ol LEMONOL	106-24-1	100
	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

attention and special tre

Not available.



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General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Methods and materials for containment and cleaning up

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

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

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

**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).

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.

pH 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.



# SAFETY DATA SHEET

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Upper/lower flammability or explosive limits

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 formulaC10-H18-OMolecular weight154.24 g/molOxidizing propertiesNot oxidizingSpecific gravity0.88 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 Causes serious eye damage.

Serious eye damage/eye

irritation

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 Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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



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Specific target organ toxicity -

single exposure

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

The substance is not classified according to the limited effects observed in LD50 determination

studies.

Specific target organ toxicity -

repeated exposure

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

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

Persistence and degradability Test method: OECD 301 A (new version)(aerobic), Activated sludge, domestic

Method of analysis: DOC reduction Degree of elimination: 90-100% (3 d)

Evaulation: Readily biodegradable (according to OECD criteria).

Biodegradability

Percent degradation (Aerobic biodegradation)

> 90 % OECD 301A (new version)(aerobic), activatied sludge, domestic DOC reduction, Readily biodegradable

(according to OECD criteria)

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

3.56

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

**Disposal instructions**Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain

into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or

used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.



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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

disposal.

### 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)

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

06

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.

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

 Issue date
 11-29-2015

 Revision date
 11-24-2021

Version #

HMIS® ratings Health: 3

Flammability: 1 Physical hazard: 0

Disclaimer

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**Revision information**This document has undergone significant changes and should be reviewed in its entirety.