

## 504607 CADINENE NATURAL

 Revision Date: 10-17-2019
 Page 1 of 8

 Version # 02
 Print Date: 10-17-2019

Product Description:	CADINENE NATURAL	
CAS #	29350-73-0	
Other means of identification		
Vigon Item #	504607	
Recommended use		d flavor ingredient which may be used in flavor and fragrance egal and IFRA or FEMA GRAS/FDA guidelines.
Recommended restrictions	For Manufacturing Use On	ly
<u>Company</u>		24 Hour Emergency Response Information
Vigon International, Inc.		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: 570-476-63	300	
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 1-352-323-3500	WITHIN THE U.S.A. OUTSIDE THE U.S.A.

#### Not classified. Physical hazards Not classified. Health hazards **Environmental hazards** Not classified. Label elements Hazard symbol None. Signal word None. The substance does not meet the criteria for classification. Hazard statement **Precautionary statement** Prevention Observe good industrial hygiene practices. Response Wash hands after handling. Storage Store away from incompatible materials. Disposal Dispose of waste and residues in accordance with local authority requirements.



## 504607 CADINENE NATURAL

 Revision Date: 10-17-2019
 Page 2 of 8

 Version # 02
 Print Date: 10-17-2019

 Hazard(s) not otherwise classified (HNOC)
 None known.

 Supplemental information
 100% of the substance consists of component(s) of unknown acute inhalation toxicity. 100% of

the substance consists of component(s) of unknown acute innalation toxicity. 100% of the substance consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the substance consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
CADINENE	4,7- dimethyl-1-propan-2-yl-1,2,4a,5,8,8a-hex ahydronaphthalene (1S,4S,4aS, 6R,8aS)-1,6-dimethyl-4-propan-2-yl-1,2,3, <b>4,245,6,826-diazydrydraphtisaler</b> opyl-4,7- dimethylnaphthalene naphthalene, 1,2,4a,5,8,8a-hexahydro-4,7-dimethyl-1-( 1-isethyleythyl)7-dimethyl-1,2,4a,5,8,8a-he xahydronaphthalene	29350-73-0	100
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. O persists. Wash skin thoroughly with soap and wa		ation develops and
Eye contact	Remove contact lenses, if present and easy to de persists. Promptly wash eyes with plenty of wate		rritation develops and
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 in	ritation.	
Indication of immediate medical attention and special treatment needed	Not available.		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.		

### **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	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	Fire may produce irritating, corrosive and/or toxic gases.
the chemical	



## 504607 CADINENE NATURAL

Revision Date: 10-17-2019 Pa	Page 3 of 8
Version # 02 Pr	Print Date: 10-17-2019

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.

### 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.



# 504607 CADINENE NATURAL

Revision Date: 10-17-2019	Page 4 of 8
Version # 02	Print Date: 10-17-2019

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).
Skin protection	
Hand protection	Chemical resistant gloves.
Other	Wear suitable protective clothing.
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	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Refer to Spec Sheet
Physical state	Liquid.
Form	Liquid.
Color	Refer to Spec Sheet
Odor	Characteristic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explos	sive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.003 mm Hg at 20 °C
Vapor density	7.2
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble



# 504607 CADINENE NATURAL

Revision Date: 10-17-2019	Page 5 of 8
Version # 02	Print Date: 10-17-2019

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	501.8 - 503.6 °F (261 - 262 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Molecular formula	C15H26
Molecular weight	206.36 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	0.92 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**

osure		
Knowledge about health hazard is incomplete.		
Causes mild skin irritation.		
Knowledge about health hazard is incomplete. Causes mild eye irritation.		
Expected to be a low ingestion hazard.		
Direct contact with eyes may cause temporary irritation.		
3		
Not known.		
Species	Test Results	
Rabbit	>= 5000 mg/kg	
Rat	>= 5000 mg/kg	
	Knowledge about health hazard is incomplete. Causes mild skin irritation. Knowledge about health hazard is incomplete. Cause Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritat Not known. Species Rabbit	



# 504607 CADINENE NATURAL

Revision Date: 10-17-2019	Page 6 of 8	
Version # 02	Print Date: 10-17-2019	
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.	
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.	
Respiratory or skin sensitization Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.	
Skin sensitization	Due to partial or complete lack of data the classification is not possible.	
Germ cell mutagenicity	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 Regulate	ed Substances (29 CFR 1910.1001-1053)	
Not listed. US. National Toxicology Pro Not listed.	ogram (NTP) Report on Carcinogens	
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.	
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.	
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.	
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.	
12. ECOLOGICAL INFOR	MATION	
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.	

	possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this substance.
Bioaccumulative potential	No data available.
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.
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.



## 504607 CADINENE NATURAL

Revision Date: 10-17-2019

Version # 02

Page 7 of 8 Print Date: 10-17-2019

#### **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

 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 No chemical

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.



# 504607 CADINENE NATURAL

Revision Date: 10-17-2019 Version # 02 Page 8 of 8 Print Date: 10-17-2019

Safe Drinking Water Act (SDWA)	Not regulated.
16. OTHER INFORMAT	ION, INCLUDING DATE OF PREPARATION OR LAST REVISION
Issue date	10-17-2019
Revision date	10-17-2019
Version #	02
HMIS® ratings	Health: 1 Flammability: 1 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 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 abased 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 i
Revision information	This document has undergone significant changes and should be reviewed in its entirety.