# 508256 CAMPHENE NATURAL

Revision Date: 03-08-2018 Page 1 of 11

Version # 03 Print Date: 03-08-2018

#### 1. IDENTIFICATION

Product Description: CAMPHENE NATURAL

**CAS #** 79-92-5 **FEMA Number** 2229

Other means of identification

**Vigon Item #** 508256

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.

570-476-6300

**Recommended restrictions** For Manufacturing Use Only

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

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

127 Airport Road 1-800-535-5053 WITHIN THE U.S.A.
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, Inc.
Address 127 Airport Road

E. Stroudsburg, PA 18301

**United States** 

**Telephone** For information call:

Website www.vigon.com E-mail Not available.

**Emergency phone number** INFOTRAC (ACCT# 78928); 1-800-535-5053 WITHIN THE U.S.A.

1-352-323-3500 OUTSIDE THE U.S.A.

### 2. HAZARD(S) IDENTIFICATION

Physical hazardsFlammable solidsCategory 2Health hazardsAcute toxicity, dermalCategory 5

Serious eye damage/eye irritation Category 2A

Environmental hazards Hazardous to the aquatic environment, Category 1

acute hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

#### Label elements





## 508256 CAMPHENE NATURAL

Revision Date: 03-08-2018 Page 2 of 11

Version # 03 Print Date: 03-08-2018

Signal word Warning

Hazard statement Flammable solid. May be harmful in contact with skin. Causes serious eye irritation. Very toxic to

aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement

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

Ground and bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to

extinguish. Collect spillage.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substances**

Chemical name	Common name and synonyms	CAS number	%
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	100

### 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.



# 508256 CAMPHENE NATURAL

Page 3 of 11 Revision Date: 03-08-2018

Print Date: 03-08-2018 Version # 03

Indication of immediate medical attention and special treatment

needed

General information

Not available.

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

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Do not use a solid water stream as it may scatter and spread fire.

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

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

#### **Environmental precautions**

Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.



# 508256 CAMPHENE NATURAL

Page 4 of 11 Revision Date: 03-08-2018

Print Date: 03-08-2018 Version # 03

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 pressure release. Store in a cool, well-ventilated area.

Keep container closed. Handle containers with care. Open slowly in order to control possible

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This substance has no PEL, TLV, or other recommended exposure limit. Occupational exposure limits

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation Appropriate engineering controls

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).

Skin protection

Hand protection Chemical resistant gloves.

Other Not available.

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. 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

Refer to Spec Sheet **Appearance** 

Physical state Solid. Solid. **Form** 

Color Refer to Spec Sheet

Odor Characteristic. Odor threshold Not available. Ηd Not available. Melting point/freezing point 124.7 °F (51.5 °C) Initial boiling point and boiling 317.3 °F (158.5 °C)

range

Flash point

73.0 °F (22.8 °C) Closed Cup

**Evaporation rate** Not available. Flammability (solid, gas) Flammable solid.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)



## 508256 CAMPHENE NATURAL

Revision Date: 03-08-2018 Page 5 of 11

Version # 03 Print Date: 03-08-2018

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 3 mm Hg at 25 °C

Vapor density 4.7

Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

**Density** 0.85 g/cm3 at 20 °C

**Explosive properties** Not explosive.

Flammability class Flammable IB estimated

Molecular formulaC10-H16Molecular weight136.24 g/molOxidizing propertiesNot oxidizing.

#### 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 Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible

materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products if stored and handled as indicated.

products

#### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** May be harmful in contact with skin. Causes mild skin irritation.

**Eye contact** Causes serious eye irritation. Causes mild eye irritation.

**Ingestion** Expected to be a low ingestion hazard.



## 508256 CAMPHENE NATURAL

Revision Date: 03-08-2018 Page 6 of 11

Version # 03 Print Date: 03-08-2018

Symptoms related to the

physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

**Acute toxicity** May be harmful in contact with skin.

Skin corrosion/irritation Skin - rabbit - No skin irritation - 4 h - OECD Test Guideline 404

Serious eye damage/eye Causes serious eye irritation.

irritation Eyes - rabbit - Irritating to eyes. - 24 h - OECD Test Guideline 405

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity Genotoxicity in vitro - Hamster - ovary - with and without metabolic activation - negative

Genotoxicity in vitro - mouse - lymphocyte - with and without metabolic activation - negative

Genotoxicity in vivo - mouse - male and female - Oral - negative

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Product		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 Test Guideline 202	
Fish	LC50	Danio rerio	0.72 mg/l, 96 hours Method: OECD Test Guideline 203	



## 508256 CAMPHENE NATURAL

Revision Date: 03-08-2018 Page 7 of 11

Version # 03 Print Date: 03-08-2018

Product Species Test Results

Other EC50 Activated Sludge > 1000 mg/l, 3 hours Method: OECD

Test Guideline 209

Persistence and degradability Biodegradability aerobic

Result: 14 % - Not readily biodegradable Method: OECD Test Guideline 301C

Bioaccumulative potential Bioaccumulation Cyprinus carpio (Carp) - 56 d at 25 °C

Bioconcentration factor (BCF): 432 - 922 Method: OECD Test Guideline 305C

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.

### 14. TRANSPORT INFORMATION

**ADN** 

UN number 1325

UN proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (CAMPHENE)

Transport hazard class(es) 4.1
Subsidiary class(es) Packing group II
Environmental hazards Yes
Labels required 4.1

ADR

UN number 1325

UN proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (CAMPHENE)

Transport hazard class(es) 4.1
Subsidiary class(es) Packing group II
Environmental hazards Yes
Labels required 4.1

**RID** 

UN number 1325



# 508256 CAMPHENE NATURAL

Revision Date: 03-08-2018 Page 8 of 11

Version # 03 Print Date: 03-08-2018

**UN** proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (CAMPHENE)

Transport hazard class(es) 4.1
Subsidiary class(es) Packing Group II
Environmental Hazards Yes
Labels required 4.1

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

DOT BULK

UN number 1325

Proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (CAMPHENE)

Hazard class 4.1
Packing group II
Environmental hazards

Marine pollutant Yes Labels required 4.1

DOT

**NON-BULK** 

UN number 1325

Proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (CAMPHENE)

Hazard class 4.1
Packing group II

**Environmental hazards** 

Marine pollutantNoPackaging exceptions151Packaging non bulk212Labels required4.1

IATA

UN number 1325

**UN proper shipping name** FLAMMABLE SOLID, ORGANIC, N.O.S. (CAMPHENE)

Transport hazard class(es) 4.1
Subsidiary class(es) Packing group II
Environmental hazards No
Labels required 4.1

**IMDG** 

UN number 1325

UN proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (CAMPHENE)

Transport hazard class(es) 4.1
Subsidiary class(es) Packing group II
Environmental hazards

Marine pollutant Yes Labels required 4.1



# 508256 CAMPHENE NATURAL

Revision Date: 03-08-2018 Page 9 of 11

Version # 03 Print Date: 03-08-2018

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

ADN; ADR; DOT BULK; DOT NON-BULK; IATA; IMDG; RID



#### Marine pollutant



### 15. REGULATORY INFORMATION

US federal regulations

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

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

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

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical



# 508256 CAMPHENE NATURAL

Revision Date: 03-08-2018 Page 10 of 11

Version # 03 Print Date: 03-08-2018

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories Acute toxicity (any route of exposure)

Serious eye damage or eye irritation

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.

Inventory name

(SDWA)

US state regulations

California Proposition 65

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

### **International Inventories**

Country(s) or region

Country (3) or region	inventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes

On inventory (yes/no)\*

Yes

Toxic Substances Control Act (TSCA) Inventory

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

 Issue date
 03-08-2018

 Revision date
 03-08-2018

Version # 03

United States & Puerto Rico

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



# 508256 CAMPHENE NATURAL

Revision Date: 03-08-2018 Page 11 of 11

Version # 03 Print Date: 03-08-2018

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

**Disclaimer** Vigon International, Inc. cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. Vigon International, Inc. has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Vigon's knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable

laws and regulations.

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