Product Specification



Product Name: SYLVAMBER

Vigon Code: 503944

CAS Number: 54464-57-2 FEMA Number: N/A

Characteristic:Specification:OdorWOODY ODOR.

Refractive Index (@20c) 1.4970 1.5020 Specific Gravity (@25c) 0.9610 0.9690

Color/appearance COLORLESS TO SLIGHTLY AMBER COLORED LIQUID.

Additional Product Information:

Flash Point: >200 °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, 2022

Printed Date: August 31, 2023



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1. IDENTIFICATION

Product Description: SYLVAMBER CAS# 54464-57-2

N/A **FEMA Number**

Other means of identification

Vigon Item # 503944

Recommended use Cosmetic material for FDA regulated product use. Concentrated aromatic ingredient which may be

used fragrance compounds according to legal and IFRA guidelines.

Recommended restrictions For Manufacturing Use Only

Company 24 Hour Emergency Response Information

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

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 regulatory@vigon.com

INFOTRAC Emergency phone number (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.

Skin corrosion/irritation Health hazards Category 2

> Sensitization, skin Category 1 Category 2

Environmental hazards Hazardous to the aquatic environment,

acute hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

Label elements





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Signal word Warning

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life. Toxic to aquatic

life with long lasting effects.

Precautionary statement

Prevention Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the

workplace. Avoid release to the environment. Wear protective gloves.

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical Response

advice/attention. Take off contaminated clothing and wash it before reuse. 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 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	%
1-(1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthyl) ethan-1-one	patchouli ethanone ambergris ketone methyl cyclomyrcetone timbrone supra	54464-57-2	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.

Eve 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.

Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if Ingestion

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

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.

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.



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Use water spray to cool unopened containers.

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Fire may produce irritating, corrosive and/or toxic gases.

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

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

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.

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.



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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).

Exposure guidelines

 $\cdot \ \mathsf{DNEL} \ (\mathsf{Derived} \ \mathsf{No\text{-}Effect} \ \mathsf{Level}) \\ : \ \mathsf{Workers} \ \mathsf{-} \ \mathsf{Acute/short\text{-}term} \ \mathsf{exposure} \ \mathsf{Local} \ \mathsf{effects} \ \mathsf{-} \ \mathsf{dermal} \\ : \ \mathsf{Comparison} \\$

101.1 µg/cm²

· DNEL (Derived No-Effect Level): Workers - Long-term exposure

Systemic effects - dermal: 1.73 mg/kg bw/day Systemic effects - inhalation: 1.76 mg/m³

· DNEL (Derived No-Effect Level): General population - Acute/short-term exposure

Local effects - dermal: 50.6 µg/cm2

· DNEL (Derived No-Effect Level): General population - Long-term exposure

Systemic effects - dermal: 0.86 mg/kg bw/day Systemic effects - inhalation: 0.43 mg/m³ Systemic effects - oral: 0.25 mg/kg bw/day

 \cdot PNEC (Predicted No-Effect Concentration) aqua (freshwater): 2.8 µg/L \cdot PNEC (Predicted No-Effect Concentration) aqua (marine water): 0.28 µg/L

· PNEC (Predicted No-Effect Concentration) Sewage Treatment Plant: 10 mg/L

· PNEC (Predicted No-Effect Concentration) sediment (freshwater): 3.73 mg/kg sediment dw · PNEC (Predicted No-Effect Concentration) sediment (marine water): 0.75 mg/kg sediment dw

PNEC (Predicted No-Effect Concentration) soil: 0.705 mg/kg soil dw
 PNEC (Predicted No-Effect Concentration) oral: 10 mg/kg food

· PNEC (Predicted No-Effect Concentration) aqua (intermittent releases): 13 µg/L

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, 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 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



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Odor Characteristic. Odor threshold Not available.

Not available. pН Not available.

Melting point/freezing point Initial boiling point and boiling 552.2 °F (289 °C)

range

> 200.0 °F (> 93.3 °C) Closed Cup Flash point

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.

Vapor pressure 0.0005 mm Hg at 25 °C

Vapor density 8.1

Relative density Not available.

Solubility(ies)

Insoluble Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available. Viscosity

Other information

Not explosive. **Explosive properties** Molecular formula C16H26O Molecular weight 234.38 g/mol 234.38 g/mol Oxidizing properties Not 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.

0.97 at 20 °C

Possibility of hazardous

Specific gravity

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.



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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 Direct contact with eyes may cause temporary irritation. Causes mild eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and

Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

Rash.

toxicological characteristics

Information on toxicological effects

Acute toxicity Not known.

Product Species Test Results

1-(1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthyl) ethan-1-one (CAS 54464-57-2)

Presumed Non-Toxic

Dermal

LD50 Rabbit >= 5000 mg/kg

Oral

LD50 Rat >= 5000 mg/kg

Skin corrosion/irritation Causes skin irritation.

The substance was found irritating in an in vitro study using a reconstructed human epidermis

(EPISKIN)

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Based on the irritation properties of two structural analogues, the substance is considered as not

irritating to eyes.

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 found to be skin sensitizing in several assays performed in mice according to

the OECD guideline 429 (LLNA- Local Lymph Node Assay).



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Germ cell mutagenicityDue to partial or complete lack of data the classification is not possible.

No mutagenicity was observed with the substance in several in vitro assays:

- in bacteria (Ames test carried out according to the OECD 471 guideline);

- in mammalian cells (mouse lympoma - test carried out according to OECD 476 guideline).

No genotoxicity was observed in vitro with the substance:

- in a chromosome aberration test in human lymphocytes (test carried out according to OECD 473

guideline).

No genotoxicity was observed in vivo with the substance in mammalian erythrocyte micronucleus

tests carried out according to the OECD 474 guideline:

- in rats;

- in male mice.

The results were ambiguous in females.

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

The substance is not expected to be carcinogenic: it is not mutagenic/genotoxic and there is no evidence from the repeated dose toxicity study that the substance is able to induce hyperplasia or

preneoplastic lesions.

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

No developmental effects were observed in an oral toxicity study carried out in rats:

NOAEL (maternal toxicity): 240 mg/kg bw/day (effects on body weight and food consumption)

NOAEL (developmental toxicity): 480 mg/kg bw/day (highest concentration tested).

No reproductive toxicity is supported but he absence of effects on reproductive organs in the

28-day repeated dose toxicity study.

Specific target organ toxicity -

single exposure

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

No specific target organ was observed in the LD50 determination studies.

Specific target organ toxicity -

repeated exposure

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

A 28-day oral repeated dose toxicity study was conducted with the substance in rats (according to

the OECD 407 guideline):

NOAEL: 150 mg/kg bw/day)reversible liver effects).

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

No aspiration hazard expected.

Further information CMR effects (carcinogenity, mutagenicity, and toxicity for reproduction)

According to Regulation (EC) No 1272/2008, the substance is not considered to be CMR



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12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life with long lasting effects.

Short term tests were conducted

Water accomodated fractions (WAF) of the ¹4C-labeled substance were prepared (the treatment solutions were stirred during 20 hours and left to settle for one hour). Concentrations were

measured using Liquid Scintillation Counting. Longer term tests were also carried out.

Flow-through systems were used with the ¹4C-labeled substance dissolved in acetone.

Concentrations were measured using Liquid Scintillation Counting.

NOEC in a 28-d test is available for three different invertebrate species of sediment organisms, representing different living and feeding conditions: the lowest NOEC, based on measured concentrations, is 17.1 mg/kg dw (tests carried out according to or in line with the OECD 218 guideline).

Product Species Test Results

1-(1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthyl) ethan-1-one (CAS 54464-57-2)

Αa	uatic
¬ч	uauc

Acute

Algae EC50 Green algae (Desmodesmus > 2.6 mg/l, 72 hours (based on biomass)

subspicatus)

Algae study carried out according to a

method similar to the OECD 201

guideline

> 2.6 mg/l, 72 hours (based on growth rate) - Algae study carried out according to a method similar to the OECD 201

guideline

NOEC Green algae (Desmodesmus 2.6 mg/l, 72 hours (based on growth

subspicatus)

rate) - Algae study carried out according

to a method similar to the OECD 201

guideline

Crustacea EC50 Daphnia magna 1.38 mg/l, 48 hours Daphnia study

carried out according to a method similar

to the OECD 202 guideline

Fish LC50 Bluegill (Lepomis macrochirus) 1.3 mg/l, 96 hours Fish study carried out

according to a method similar to the

OECD 203 guideline

Chronic

Crustacea LOEC Daphnia magna 0.244 mg/l, 21 days (based on body

length) - Daphnia study carried out according to the OECD 211 guideline

0.096 mg/l, 21 days (based on reproduction) - Daphnia study carried out according to the OECD 211

guideline



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	Species	Test Results
NOEC	Daphnia magna	0.448 mg/l, 21 days (based on mortality) - Daphnia study carried out according to the OECD 211 guideline
		0.096 mg/l, 21 days (based on body length) - Daphnia study carried out according to the OECD 211 guideline
		0.028 mg/l, 21 days (based on reproduction) - Daphnia study carried out according to the OECD 211 guideline
LOEC	Danio rerio	0.29 mg/l, 30 days (based on length and weight) - Fish study carried out according to the OECD 210 guideline
NOEC	Danio rerio	0.54 mg/l, 30 days (based on time to hatch) - Fish study carried out according to the OECD 210 guideline
		0.54 mg/l, 30 days (based on egg survival) - Fish study carried out according to the OECD 210 guideline
		0.3 mg/l, 30 days (based on post hatch survival) - Fish study carried out according to the OECD 210 guideline
		0.16 mg/l, 30 days (based on length and weight) - Fish study carried out according to the OECD 210 guideline
	LOEC	NOEC Daphnia magna LOEC Danio rerio

Persistence and degradability

Although the substance did not readily biodegrade under the conditions of the screening test, it was shown to be rapidly biodegradable in a river water die-away study with a half-life time for primary degradation of ca 1 day.

The half-time time in a river sediment and in agricultural and sludge amended soils was found to be 10 days, 4.2 days and 6 days respectively. These results show that the substance will be rapidly biodegraded under natural conditions.

The constituents of the substance are not considered to be Persistent, Bioaccumulating and Toxic (PBT).

The constituents of the mixture are not considered to be very persistent and very bioaccumulating (vPvB).

Bioaccumulative potential

Bioconcentration and metabolism of the substance was studied with the Bluegill sunfish (Lepomis macrochirus) according to the OECD 305 guideline (flow-through system).

High concentration treatment

BCF: 593 (steady state - time of plateau: 3.6 d - average over day 14 and 21 - lipid content 7.7%) Low concentration treatment

BCF: 603 (steady state appoach - time of plateau: 3.6 d - average over day 14 and 21 - lipid content 7.7%).



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Mobility in soil No measured data available.

Other information:

Partitioning bewteen effluent and sludge (coefficient Kd) was derived directly from concentrations

of the substance in these matrices in 18 sewage treatment plants: 2.98-4.18.

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 instructionsDo 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 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-

Octahydro-2,3,8,8- tetramethyl-2- naphthyl) ethan-1-one)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III

Packing group III
Environmental hazards Yes
Labels required 9

ADR

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-

Octahydro-2,3,8,8- tetramethyl-2- naphthyl) ethan-1-one)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III
Environmental hazards Yes
Labels required 9

RID

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-

Octahydro-2,3,8,8- tetramethyl-2- naphthyl) ethan-1-one)

Transport hazard class(es) 9
Subsidiary class(es) Packing Group III



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Environmental Hazards Yes **Labels required** 9

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

DOT

BULK

UN number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-

Octahydro-2,3,8,8- tetramethyl-2- naphthyl) ethan-1-one)

Hazard class 9
Packing group III

Environmental hazards

Marine pollutantYesPackaging exceptions155Packaging bulk241Labels required9

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. (1-(1,2,3,4,5,6,7,8-

Octahydro-2,3,8,8- tetramethyl-2- naphthyl) ethan-1-one)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III
Environmental hazards

Marine pollutant Yes

Labels required 9

Transport in bulk according to Annex II of MARPOL

Not applicable.

73/78 and the IBC Code
ADN; ADR; DOT BULK; IMDG; RID





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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.

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

Classified hazard Skin corrosion or irritation categories 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
 11-25-2015

 Revision date
 05-05-2020



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Version # 03

HMIS® ratings Health: 2

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 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

Product and Company Identification: Vigon Values

HAZARD(S) IDENTIFICATION: Prevention

HAZARD(S) IDENTIFICATION: Supplemental information

EXPOSURE CONTROLS/PERSONAL PROTECTION: General hygiene considerations

EXPOSURE CONTROLS/PERSONAL PROTECTION: Other

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data

TOXICOLOGICAL INFORMATION: Respiratory sensitization

TOXICOLOGICAL INFORMATION: Ingestion TOXICOLOGICAL INFORMATION: Inhalation

REGULATORY INFORMATION: California Proposition 65

REGULATORY INFORMATION: Safe Drinking Water Act (SDWA)

OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION: Reference

s HazReg Data: North America

Food Grade Certification



Product Name: SYLVAMBER

Vigon Code: 503944

FEMA #: N/A

Vigon International, LLC. certifies that the above ingredient is **not** food grade.

Vigon International, LCC. 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,

• azelis VIGO

Allergen/Sensitive Agents Identification Sheet

Product Name: SYLVAMBER

Vigon Code: 503944

* 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,

GMO Status Statement



Product Name: SYLVAMBER

Vigon Code: 503944

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

Sincerely,

Ingredient Statement



Product Name: SYLVAMBER

Vigon Code: 503944

CAS #: 54464-57-2 1-(2,3,8,8-tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone 100%

Sincerely,

Nutritional Statement



Product Name: SYLVAMBER

Vigon Code: 503944

Vigon International, LLC. certifies that, to the best of our knowledge, the product listed above does not contribute to the nutritional value of flavors due to their extremely low usage levels and therefore falls under the nutritional labeling exemption defined in Section 101.9(a) and (j) of Title 21 of the Code of Federal Regulations.

Sincerely,

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Irradiation and Sewage Sludge Statement



Product Name: SYLVAMBER

Vigon Code: 503944

Vigon International, LLC. declares that the product listed above has *not* 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,

Heavy Metals and Pesticide Statement



Product Name: SYLVAMBER

Vigon Code: 503944

Vigon International, LLC. declares that, to the best of our knowledge and belief, all ingredients in the product listed above are listed as being generally recognized as safe (GRAS) by the Food and Drug administration (FDA) when used in accordance with the FDA's good manufacturing practices (GMP) and contain no residues of heavy metals and pesticides in excess of tolerances set by the FDA and the Environmental Protection Agency (EPA).

Sincerely,

Stabilizer Statement



Product Name: SYLVAMBER

Vigon Code: 503944

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,

Continuing Product Guarantee



Product Name: SYLVAMBER

Vigon Code: 503944

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,

Dietary Preferences & Restrictions



Product Name: SYLVAMBER

Vigon Code: 503944

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: SYLVAMBER

Vigon Code: 503944

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,

Proposition 65 Statement



Product Name: SYLVAMBER

Vigon Code: 503944

Vigon International, LLC. certifies that the product above is <u>not listed</u> on the California's Safe Drinking Water and Toxic Enforcement Act of 1986, also known as Proposition 65.

Sincerely,

Nanomaterials



Product Name: SYLVAMBER

Vigon Code: 503944

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,

Transmissible Spongiform Encephalopathy (TSE) and Bovine • azelis Spongiform Encephalopathy (BSE) Statement





Product Name: SYLVAMBER

Vigon Code: 503944

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,

Vigon Regulatory Department regulatory@vigon.com

Date of Issue: August 31, 2023

IFRA



Product Name: SYLVAMBER

Vigon Code: 503944

We certify that the above material contains the following restricted substance restricted by IFRA Standards:

1-(2,3,8,8-tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone (CAS 54464-57-2) 100%

- is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA 51th amendment), depending on the application and the percentage of use in the final product.

The IFRA Standards regarding use restriction are based on safety assessments by the Panel of Experts of the Research Institute for Fragrance Materials (RIFM) and are enforced by the IFRA Scientific Committee.

It is the ultimate responsibility of our customer to ensure the safety of the final product by further testing if need be.

International Inventories



Yes

Product Name: SYLVAMBER

Vigon Code: 503944

Country(s) or region Inventory name On inventory (yes/no)*

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in Chine (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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

United States & Puerto Rico Toxic Substances and Control Act (TSCA) Inventory

Sincerely,

Vigon Regulatory Department regulatory@vigon.com

Date of Issue: August 31, 2023

Residual Solvents



Product Name: SYLVAMBER

Vigon Code: 503944

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: SYLVAMBER

Vigon Code: 503944

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

Tetramethyl acetyloctahydronaphthalenes (CAS 54464-57-2) 100%

Sincerely,

Melamine Statement



Product Name: SYLVAMBER

Vigon Code: 503944

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: SYLVAMBER

Vigon Code: 503944

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,



Approx. Tare:

Net:

Vigon International, LLC. 127 Airport Road East Stroudsburg, PA 18301-9629 USA +1.570.476.6300 | sales@vigon.com

SYLVAMBER

ID #: EXAMPLE Code: 503944

KG Approx. Gross:

0.000 Produced on: 0.000

LB

0.000

0.000

FRANCE Country of Origin:

1-(1,2,3,4,5,6,7,8-

Chemical Name: Octahydro-2,3,8,8- tetramethyl-2naphthyl) ethan-1-one

54464-57-2 CAS#:

> 200°F (93°C) Flash Point:

NONE Allergens:

0.000 Liters:

N/A

0.000 | Best used before:

EXAMPLE 0.000 Lot #:

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.

INSTRUCTIONS FOR USE: Ask your employer for guidance regarding the safe use and handling of this product in your specific workplace environment based on the information provided in Vigon's Safety Data Sheet (SDS).

HAZARD STATEMENT: Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. PRECAUTIONARY STATEM ENT:-PREVENTION- Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.-RESPONSE- IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.-STORAGE- Store away from incompatible materials.-DISPOSALcontents/container in accordance with local/regional/national/international regulations.

