

# Product Specification

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**Product Name:** SYLVAMBER

**Vigon Code:** 503944

**CAS Number:** 54464-57-2

**FEMA Number:** N/A

**Characteristic:**

**Specification:**

Acid Value	0.000	0.500
Gas Chromatograph	PASSES TEST	
Odor	WOODY 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:** October 8, 2020

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**1. IDENTIFICATION**

<b>Product Description:</b>	<b>SYLVAMBER</b>
<b>CAS #</b>	54464-57-2
<b>FEMA Number</b>	N/A
<b>Other means of identification</b>	
<b>Vigon Item #</b>	503944
<b>Recommended use</b>	Cosmetic material for FDA regulated product use. Concentrated aromatic ingredient which may be used fragrance compounds according to legal and IFRA guidelines.
<b>Recommended restrictions</b>	For Manufacturing Use Only

Company

Vigon International, Inc.  
127 Airport Road  
E. Stroudsburg, PA 18301  
For information call: 570-476-6300  
Web Site: www.vigon.com

24 Hour Emergency Response Information

INFOTRAC (ACCT# 78928);  
1-800-535-5053 WITHIN THE U.S.A.  
1-352-323-3500 OUTSIDE THE U.S.A.

**Manufacturer/Importer/Supplier/Distributor information****Manufacturer**

<b>Company name</b>	Vigon International, Inc.	
<b>Address</b>	127 Airport Road E. Stroudsburg, PA 18301 United States	
<b>Telephone</b>	For information call:	570-476-6300
<b>Website</b>	www.vigon.com	
<b>E-mail</b>	regulatory@vigon.com	
<b>Emergency phone number</b>	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**

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Sensitization, skin	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

**Label elements**

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<b>Signal word</b>	Warning
<b>Hazard statement</b>	Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.
<b>Response</b>	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.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	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

<b>Inhalation</b>	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.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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.
<b>Most important symptoms/effects, acute and delayed</b>	Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Not available.
<b>General information</b>	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

<b>Suitable extinguishing media</b>	Water spray, fog, CO <sub>2</sub> , dry chemical, or alcohol resistant foam.
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<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Specific hazards arising from the chemical</b>	Fire may produce irritating, corrosive and/or toxic gases.
<b>Special protective equipment and precautions for firefighters</b>	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.
<b>Fire fighting equipment/instructions</b>	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.
<b>Specific methods</b>	Use water spray to cool unopened containers.
<b>General fire hazards</b>	Static charges generated by emptying package in or near flammable vapor may cause flash fire.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Methods and materials for containment and cleaning up</b>	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.
<b>Environmental precautions</b>	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

<b>Precautions for safe handling</b>	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**

- DNEL (Derived No-Effect Level): Workers - Acute/short-term exposure Local effects - dermal: 101.1 µg/cm<sup>2</sup>
- DNEL (Derived No-Effect Level): Workers - Long-term exposure Systemic effects - dermal: 1.73 mg/kg bw/day Systemic effects - inhalation: 1.76 mg/m<sup>3</sup>
- DNEL (Derived No-Effect Level): General population - Acute/short-term exposure Local effects - dermal: 50.6 µg/cm<sup>2</sup>
- 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/m<sup>3</sup> Systemic effects - oral: 0.25 mg/kg bw/day
- PNEC (Predicted No-Effect Concentration) aqua (freshwater): 2.8 µg/L
- 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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<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	552.2 °F (289 °C)
<b>Flash point</b>	> 200.0 °F (> 93.3 °C) Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0.0005 mm Hg at 25 °C
<b>Vapor density</b>	8.1
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Molecular formula</b>	C16H26O
<b>Molecular weight</b>	234.38 g/mol 234.38 g/mol
<b>Oxidizing properties</b>	Not oxidizing.
<b>Specific gravity</b>	0.97 at 20 °C

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	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 toxicological characteristics** Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### 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)		
<b>Presumed Non-Toxic</b>		
<i>Dermal</i>		
LD50	Rabbit	>= 5000 mg/kg
<i>Oral</i>		
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 irritation** Direct contact with eyes may cause temporary 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 mutagenicity**

Due 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 lymphoma - 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 toxicity**

Due 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 by the 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 hazard**

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

No aspiration hazard expected.

### **Further information**

CMR effects (carcinogenicity, 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 accommodated fractions (WAF) of the <sup>14</sup>C-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 <sup>14</sup>C-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)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Green algae (Desmodesmus subspicatus)	> 2.6 mg/l, 72 hours (based on biomass) - 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 subspicatus)	2.6 mg/l, 72 hours (based on growth 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
<i>Chronic</i>			
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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Product		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
Fish	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

**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 approach - time of plateau: 3.6 d - average over day 14 and 21 - lipid content 7.7%).

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<b>Mobility in soil</b>	No measured data available. Other information: Partitioning between 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.
<b>Other adverse effects</b>	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

<b>Disposal instructions</b>	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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	Not established.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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

<b>UN number</b>	3082
<b>UN proper shipping name</b>	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)
<b>Transport hazard class(es)</b>	9
<b>Subsidiary class(es)</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>Labels required</b>	9

#### ADR

<b>UN number</b>	3082
<b>UN proper shipping name</b>	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)
<b>Transport hazard class(es)</b>	9
<b>Subsidiary class(es)</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>Labels required</b>	9

#### RID

<b>UN number</b>	3082
<b>UN proper shipping name</b>	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)
<b>Transport hazard class(es)</b>	9
<b>Subsidiary class(es)</b>	-
<b>Packing Group</b>	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 pollutant** Yes  
**Packaging exceptions** 155  
**Packaging bulk** 241  
**Labels required** 9

**DOT****NON-BULK**

Not regulated as dangerous goods.

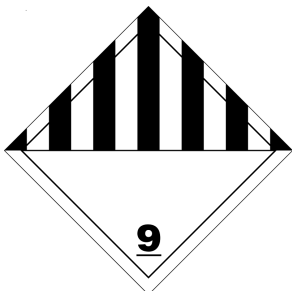
**IATA**

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 73/78 and the IBC Code** Not applicable.

ADN; ADR; DOT BULK; IMDG; RID



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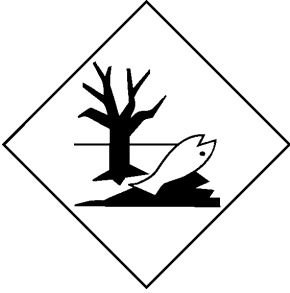
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Marine pollutant



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### 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 chemical** Yes

**Classified hazard categories** Skin corrosion or irritation  
Respiratory or skin sensitization

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

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

**Issue date** 11-25-2015

**Revision date** 05-05-2020



# SAFETY DATA SHEET

503944 SYLVAMBER

Revision Date: 05-05-2020

Page 13 of 13

Version # 03

Print Date: 05-05-2020

**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

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**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,

Vigon Regulatory Department  
regulatory@vigon.com

Date of Issue: February 11, 2022

# 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.

<b>ALLERGEN/SENSITIVE AGENTS</b>	*
<b>CORN &amp; CORN PRODUCTS</b> Includes modified starch, hydrolyzed protein, sweeteners, sugars, spice carriers	
<b>EGG &amp; EGG PRODUCTS</b> liquid and powders	
<b>FISH</b> Includes any and all species of fresh and salt water fish	
<b>GARLIC</b> Dehydrated, powdered, granules, and flakes	
<b>GLUTEN</b> Wheat, rye, barley, oats, flour, etc.	
<b>MILK &amp; DAIRY PRODUCTS</b> Includes whey, lactose, cheese, casein, spice carriers, milk, cream, etc.	
<b>MONOSODIUM GLUTAMATE</b>	
<b>PEANUTS, PEANUT OIL &amp; PEANUT DERIVED ITEMS</b> Peanut meal, flour & ground nuts, szechwan sauce, mandelona nuts, etc.	
<b>SESAME SEEDS &amp; SESAME OIL</b>	
<b>CRUSTACEANS</b> Shrimp, lobster, rock lobster, crab, crayfish, and products made from them	
<b>MOLLUSKS</b> Clams, mussels, oysters, scallops, and products made from them	
<b>SOY</b> Includes soya powder, protein, oil, lecithin, tofu	
<b>SULFITES</b> Includes sulfur dioxide, sodium dithionite, chemicals that lists sulfite, etc.	
<b>TREE NUTS</b> Includes almonds, beechnuts, basil nuts, nutmeg, cashews, chestnuts, etc.	
<b>WHEAT</b> Includes hydrolyzed wheat protein, flour, gluten flour, starches	
<b>MUSTARD &amp; MUSTARD OIL</b>	
<b>LUPIN</b>	
<b>CELERY</b>	

Vigon International, LLC. follows Good Manufacturing Practices and has implemented HACCP systems. Our personnel are trained on the proper handling of allergenic materials.

Sincerely,

Vigon Regulatory Department  
regulatory@vigon.com

Date of Issue: February 11, 2022



# GMO Status Statement

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**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,

Vigon Regulatory Department  
regulatory@vigon.com

Date of Issue: February 11, 2022

# Ingredient Statement

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**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,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# Irradiation and Sewage Sludge Statement

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**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,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# Heavy Metals and Pesticide Statement

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**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,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# Stabilizer Statement

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**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,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# Continuing Product Guarantee

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**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,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# Dietary Preferences & Restrictions

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**Product Name: SYLVAMBER**

**Vigon Code: 503944**

Vigon International, LLC. certifies that the product listed above is suitable for consumption by:

<b>Vegans</b> Do not eat meat, poultry, fish/seafood, eggs, dairy products, honey	
<b>Lacto-Vegetarians</b> Do not eat meat, poultry, fish/seafood, eggs, but do eat dairy products	
<b>Ovo-Vegetarians</b> Do not eat meat, poultry, fish/seafood, dairy products, but do eat eggs	
<b>Vegetarians</b> Do not eat meat, poultry, fish/seafood, but do eat dairy products and eggs	

Sincerely,

Vigon Regulatory Department  
regulatory@vigon.com

Date of Issue: February 11, 2022

# Animal Testing Statement

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**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. However, some ingredients used in our products have been subjected to animal testing by the academic community, government agencies, or within the chemical industry.

Sincerely,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022



## Proposition 65 Statement

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**Product Name: SYLVAMBER**

**Vigon Code: 503944**

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

Sincerely,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# Nanomaterials

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**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 produced 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,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# Transmissible Spongiform Encephalopathy (TSE) and Bovine



## 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: February 11, 2022

# IFRA

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**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 50th 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.

Vigon Regulatory Department  
regulatory@vigon.com

Date of Issue: February 11, 2022

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**Vigon International, LLC.**

127 Airport Road East Stroudsburg, PA 18301-9629 USA | Tel: +1 570-476-6300 | Fax: +1 570-476-1110 | Email: regulatory@vigon.com | Web: vigon.com

# International Inventories

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**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 China (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	Yes

Sincerely,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

## Residual Solvents

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**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,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# EU Fragrance Allergen Statement

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**Product Name: SYLVAMBER**

**Vigon Code: 503944**

The product listed above is in compliance with the European Directive 76/768/EEC established by the SCCNFP declared allergens. This product is free of these fragrance allergens.

Sincerely,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# Melamine Statement

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**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,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022



# Phthalate Statement

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**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,

Vigon Regulatory Department  
regulatory@vigon.com  
Date of Issue: February 11, 2022

# SYLVAMBER

Code: **503944** ID #: **EXAMPLE**

	KG	LB
Approx. Gross: 	0.000	0.000
Approx. Tare: 	0.000	0.000
<b>Net:</b> 	<b>0.000</b>	<b>0.000</b>

Country of Origin: **FRANCE**  
 Chemical Name: **1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one**  
 CAS#: **54464-57-2**  
 Flash Point: **> 200°F (93°C)**  
 Allergens: **NONE**  
 Liters: **0.000**

Produced on: **N/A**  
 Best used before: **N/A**  
 Lot #: **EXAMPLE**

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.

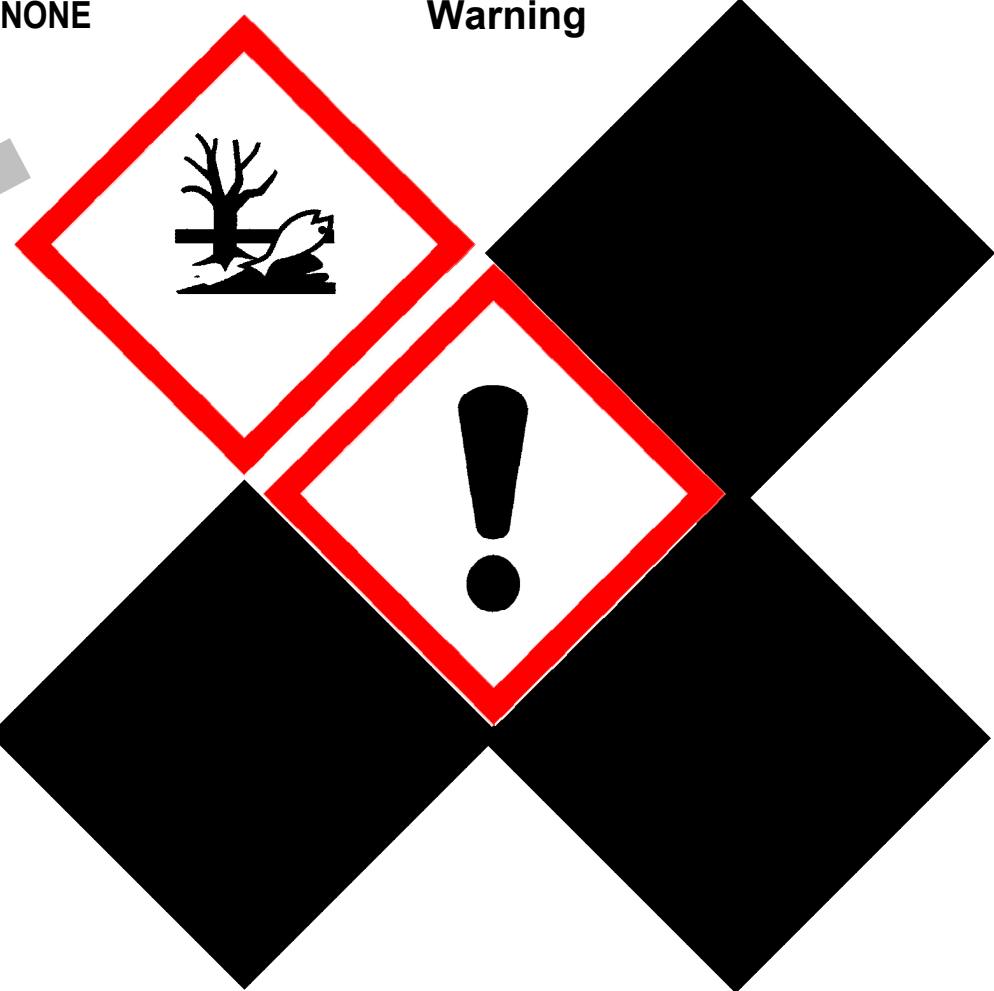
INSTRUCTIONS FOR USE: Ask your employer for guidance regarding the safe use and handling of this product in your specific workplace environment based on the information provided in Vigon's Safety Data Sheet (SDS).

**HAZARD STATEMENT:** Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.  
**PRECAUTIONARY 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.-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.-DISPOSAL- Dispose of contents/container in accordance with local/regional/national/international regulations.



NONE

Warning



PPE: D