

# Linen Ecoz

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Revision Date: 01/28/2016

Date of issue: 01/28/2016

Version: 1.0

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Name:** Linen Ecoz

### Intended Use of the Product

A concentrated, water-soluble, and odor-neutralizing liquid. Specifically formulated for commercial and industrial use on floors, walls, fabrics, and other surfaces.

### Name, Address, and Telephone of the Responsible Party

#### **Company**

Vaportek

W226N6339 Village Drive

Sussex, WI 53089

info@vaportek.com

262.246.5060

### Emergency Telephone Number

**Emergency Number** : 262.246.5060

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### **GHS-US classification**

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

Repr. 2 H361 (oral)

Aquatic Acute 3 H402

Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

### Label Elements

#### **GHS-US Labeling**

#### **Hazard Pictograms (GHS-US)**



#### **Signal Word (GHS-US)**

: Warning

#### **Hazard Statements (GHS-US)**

: H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H361 - Suspected of damaging fertility (oral).  
H402 - Harmful to aquatic life.  
H412 - Harmful to aquatic life with long lasting effects.

#### **Precautionary Statements (GHS-US)**

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - If exposed or concerned: Get medical advice/attention.

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P321 - Specific treatment (see section 4 on this SDS).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### Unknown Acute Toxicity (GHS-US)

Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)
Water	(CAS No) 7732-18-5	77
Alcohols, C6-10, ethoxylated propoxylated	(CAS No) 68987-81-5	10 - 20
Octanal, 2-(phenylmethylene)-	(CAS No) 101-86-0	0.5 - 1.25
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl-	(CAS No) 80-54-6	0.5 - 1.25
Octanal, 7-hydroxy-3,7-dimethyl-	(CAS No) 107-75-5	0.125 - 0.5
Coumarin	(CAS No) 91-64-5	0.125 - 0.5
3-Cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)-	(CAS No) 31906-04-4	0.125 - 0.5
Oils, clove leaf, crude	(CAS No) 8015-97-2	0.05 - 0.125
3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	(CAS No) 127-51-5	0.005 - 0.125
Citronellol	(CAS No) 106-22-9	0.05 - 0.125

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye irritation. Causes skin irritation. Skin sensitization. Suspected of damaging fertility (oral).

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Suspected of damaging fertility (oral).

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### **Reference to Other Sections**

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do NOT breathe (dust, vapor, mist, gas).

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### **Specific End Use(s)**

A concentrated, water-soluble, and odor-neutralizing liquid. Specifically formulated for commercial and industrial use on floors, walls, fabrics, and other surfaces.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

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### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Not available
Odor	: Not available
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: Not available
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

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### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Suspected of damaging fertility (oral).

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Suspected of damaging fertility (oral).

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Octanal, 2-(phenylmethylene)- (101-86-0)</b>	
LD50 Oral Rat	3100 mg/kg
LD50 Dermal Rabbit	> 3000 mg/kg
<b>Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)</b>	
LD50 Oral Rat	1390 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>Octanal, 7-hydroxy-3,7-dimethyl- (107-75-5)</b>	
LD50 Oral Rat	> 5 g/kg
<b>Coumarin (91-64-5)</b>	
LD50 Oral Rat	293 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>3-Cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)- (31906-04-4)</b>	
LD50 Oral Rat	3250 µl/kg
<b>Oils, clove leaf, crude (8015-97-2)</b>	
ATE US (oral)	500.00 mg/kg body weight
<b>Citronellol (106-22-9)</b>	
LD50 Oral Rat	3450 mg/kg
<b>Coumarin (91-64-5)</b>	
IARC Group	3
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.

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### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

**Ecology - General:** Harmful to aquatic life with long lasting effects.

<b>Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)</b>	
LC50 Fish 1	2.2 - 4.6 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Coumarin (91-64-5)</b>	
EC50 Daphnia 1	13.5 mg/l

#### Persistence and Degradability

<b>Linen Ecoz</b>	
Persistence and Degradability	May cause long-term adverse effects in the environment.

#### Bioaccumulative Potential

<b>Linen Ecoz</b>	
Bioaccumulative Potential	Not established.
<b>Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)</b>	
Log Pow	4.2 (at 24 °C)

**Mobility in Soil** Not available

#### Other Adverse Effects

**Other Information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology – Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

### SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

<b>Linen Ecoz</b>	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Octanal, 2-(phenylmethylene)- (101-86-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Octanal, 7-hydroxy-3,7-dimethyl- (107-75-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Coumarin (91-64-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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<b>3-Cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)- (31906-04-4)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, acetate (5413-60-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)- (127-51-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Citronellol (106-22-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### US State Regulations

Neither this product nor its chemical components appear on any US state lists.

### Canadian Regulations

<b>Linen Ecoz</b>	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	

<b>Water (7732-18-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

<b>Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)</b>	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Octanal, 2-(phenylmethylene)- (101-86-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

<b>Octanal, 7-hydroxy-3,7-dimethyl- (107-75-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

<b>Coumarin (91-64-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>3-Cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)- (31906-04-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

<b>4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, acetate (5413-60-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

<b>3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)- (127-51-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Citronellol (106-22-9)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

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

**Revision Date** : 01/28/2016  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361	Suspected of damaging fertility (oral).
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

#### Party Responsible for the Preparation of This Document

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS