

Lemon Ecoz

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Revision Date: 01/07/2016 Date of issue: 01/07/2016

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Name: Lemon 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
Full text of H-phrases: see section 16

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)

:



GHS07

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.

Precautionary Statements (GHS-US)

: 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.
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.
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.
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)

No additional information available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	% (w/w)
Water	(CAS No) 7732-18-5	80
Alcohols, C6-10, ethoxylated propoxylated	(CAS No) 68987-81-5	10 - 30
Citral	(CAS No) 5392-40-5	0.1 - 1
Octanal, 2-(phenylmethylene)-	(CAS No) 101-86-0	0.1 - 1
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl-	(CAS No) 80-54-6	0.1 - 1
Geranyl acetate	(CAS No) 105-87-3	< 0.1, 0.1 - 1
Diphenyl oxide	(CAS No) 101-84-8	< 0.1, 0.1 - 1

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.

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: Not available

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.

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, CO₂), nitrogen oxides.

Reference to Other Sections

Refer to section 9 for flammability properties.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

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

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.

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. Avoid breathing vapors, mist, spray. Do not get in eyes, on skin, or on clothing.

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

Citral (5392-40-5)		
USA ACGIH	ACGIH TWA (ppm)	5 ppm (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen
Manitoba	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)
Newfoundland & Labrador	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)
Nova Scotia	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)
Ontario	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)
Prince Edward Island	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)
Diphenyl oxide (101-84-8)		
Mexico	OEL TWA (mg/m ³)	7 mg/m ³ (vapor)
Mexico	OEL TWA (ppm)	1 ppm (vapor)
Mexico	OEL STEL (mg/m ³)	14 mg/m ³ (vapor)

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Mexico	OEL STEL (ppm)	2 ppm (vapor)
USA ACGIH	ACGIH TWA (ppm)	1 ppm (vapor)
USA ACGIH	ACGIH STEL (ppm)	2 ppm (vapor)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	7 mg/m ³ (vapor)
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm (vapor)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	7 mg/m ³ (vapor)
USA NIOSH	NIOSH REL (TWA) (ppm)	1 ppm (vapor)
USA IDLH	US IDLH (ppm)	100 ppm (vapor)
Alberta	OEL STEL (mg/m ³)	14 mg/m ³ (vapour)
Alberta	OEL STEL (ppm)	2 ppm (vapour)
Alberta	OEL TWA (mg/m ³)	7 mg/m ³ (vapour)
Alberta	OEL TWA (ppm)	1 ppm (vapour)
British Columbia	OEL STEL (ppm)	2 ppm (vapour)
British Columbia	OEL TWA (ppm)	1 ppm (vapour)
Manitoba	OEL STEL (ppm)	2 ppm (vapor)
Manitoba	OEL TWA (ppm)	1 ppm (vapor)
New Brunswick	OEL STEL (mg/m ³)	14 mg/m ³ (vapor)
New Brunswick	OEL STEL (ppm)	2 ppm (vapor)
New Brunswick	OEL TWA (mg/m ³)	7 mg/m ³ (vapor)
New Brunswick	OEL TWA (ppm)	1 ppm (vapor)
Newfoundland & Labrador	OEL STEL (ppm)	2 ppm (vapor)
Newfoundland & Labrador	OEL TWA (ppm)	1 ppm (vapor)
Nova Scotia	OEL STEL (ppm)	2 ppm (vapor)
Nova Scotia	OEL TWA (ppm)	1 ppm (vapor)
Nunavut	OEL STEL (mg/m ³)	14 mg/m ³ (vapor)
Nunavut	OEL STEL (ppm)	2 ppm (vapor)
Nunavut	OEL TWA (mg/m ³)	7 mg/m ³ (vapor)
Nunavut	OEL TWA (ppm)	1 ppm (vapor)
Northwest Territories	OEL STEL (ppm)	2 ppm (vapour)
Northwest Territories	OEL TWA (ppm)	1 ppm (vapour)
Ontario	OEL STEL (ppm)	2 ppm (vapor)
Ontario	OEL TWA (ppm)	1 ppm (vapor)
Prince Edward Island	OEL STEL (ppm)	2 ppm (vapor)
Prince Edward Island	OEL TWA (ppm)	1 ppm (vapor)
Québec	VECD (mg/m ³)	14 mg/m ³ (vapour)
Québec	VECD (ppm)	2 ppm (vapour)
Québec	VEMP (mg/m ³)	7 mg/m ³ (vapour)
Québec	VEMP (ppm)	1 ppm (vapour)
Saskatchewan	OEL STEL (ppm)	2 ppm (vapour)
Saskatchewan	OEL TWA (ppm)	1 ppm (vapour)
Yukon	OEL STEL (mg/m ³)	14 mg/m ³ (vapour)
Yukon	OEL STEL (ppm)	2 ppm (vapour)
Yukon	OEL TWA (mg/m ³)	7 mg/m ³ (vapour)
Yukon	OEL TWA (ppm)	1 ppm (vapour)

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.

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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 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.

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: Thermal decomposition generates: Carbon oxides (CO, CO₂), nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

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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: Not classified

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.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Citral (5392-40-5)	
LD50 Oral Rat	4960 mg/kg
LD50 Dermal Rabbit	2250 mg/kg
Octanal, 2-(phenylmethylene)- (101-86-0)	
LD50 Oral Rat	3100 mg/kg
LD50 Dermal Rabbit	> 3000 mg/kg
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)	
LD50 Oral Rat	1390 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
Geranyl acetate (105-87-3)	
LD50 Oral Rat	6330 mg/kg
Diphenyl oxide (101-84-8)	
LD50 Oral Rat	2450 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Not classified.

Citral (5392-40-5)	
LC50 Fish 1	4.1 mg/l
EC50 Daphnia 1	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)	
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)
Diphenyl oxide (101-84-8)	
LC50 Fish 1	4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.11 - 1.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	4 - 7.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

Persistence and Degradability

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Persistence and Degradability	Not established.

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Bioaccumulative Potential

Lemon Ecoz	
Bioaccumulative Potential	Not established.
Citral (5392-40-5)	
Log Pow	2.76 (at 25 °C)
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)	
Log Pow	4.2 (at 24 °C)
Diphenyl oxide (101-84-8)	
BCF Fish 1	470
Log Pow	4.24

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.

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

Lemon Ecoz	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Citral (5392-40-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Octanal, 2-(phenylmethylene)- (101-86-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Geranyl acetate (105-87-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Diphenyl oxide (101-84-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

US State Regulations


Diphenyl oxide (101-84-8)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

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Canadian Regulations

Lemon Ecoz	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	
Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Water (7732-18-5)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Citral (5392-40-5)	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Octanal, 2-(phenylmethylene)- (101-86-0)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)	
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
Geranyl acetate (105-87-3)	
Listed on the Canadian DSL (Domestic Substances List)	
Diphenyl oxide (101-84-8)	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

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 : 01/07/2016
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:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
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

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Party Responsible for the Preparation of This Document

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262.246.5060

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