

Revision date: Version 3.0
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Trade name: ECOZ Lemon™

SECTION 1: Identification / Identification of the dangerous chemical substance or mixture and the supplier or manufacturer

Product identifier: ECOZ Lemon™
Vaportek Ecoz Liquid Concentrate Odor Neutralizer – Lemon Variety

Product Code Number: 90-1801, 90-1803, 90-1805

Recommended use: Concentrated, water-soluble, odor-neutralizing liquid. Specifically formulated for commercial and industrial use on floors, walls and other surfaces.

Recommended restrictions: Uses other than as recommended above.

Manufacturer/Importer/Supplier/Distributor information:

Company Name: Vaportek Inc.
Company Address: W226 N6339 Village Drive
Sussex, WI, 53089
USA

Website: www.vaportek.com
info@vaportek.com

Company Telephone: 800.237.6367
262.246.5060
Chemtrec Primary Phone Numbers

Emergency phone number: Toll Free: 1-800-424-9300
Local: +1-703-527-3887
Vaportek CHEMTREC
Customer Number (CNN): P1020146

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with the OSHA Hazard Communication Standard (2012) – Hazcom 2012, Hazardous Products Regulations (2015) (Canada) Workplace Hazardous Materials Information System (WHMIS 2015) and Mexican NMX-R-019-SCFI-2011 and NOM-018-STPS-2000:

Classification of the Substance or Mixture (USA, Canada):

Eye Irritation Cat 2A	H319	Causes serious eye irritation
Skin Sensitization Cat 1	H317	May cause an allergic skin reaction

Label Elements (USA, Canada):

Pictograms :



GHS07

Signal Word : WARNING

Hazard Phrases : H317 – May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary Phrases : P261 – Avoid breathing mist, vapors or spray.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves/ protective clothing/ eye protection.
 P302+P352 – IF ON SKIN: Wash with plenty of water and soap.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 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 sections 4-8 of this safety data sheet or any additional information on the product label.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P363 – Wash contaminated clothing before reuse.
 P501 - Dispose of contents/container to a licensed waste disposal contractor or collection site.

Hazard(s) or Health and Physical Hazard(s) not otherwise Classified (HNOC): Not applicable

Percentage of ingredient(s) of unknown acute toxicity:

5% of the mixture consists of ingredients of unknown toxicity.

Classification of the Substance or Mixture (Mexico):

Eye Irritation Cat 2A	H319	Causes serious eye irritation
Skin Irritation Cat 3	H316	Causes mild skin irritation
Skin Sensitization Cat 1	H317	May cause an allergic skin reaction
Acute Aquatic Toxicity Cat 2	H401	Toxic to aquatic life

Label Elements (Mexico):

Pictograms (GHS-MX)



GHS07

Signal Word (GHS-MX)

: WARNING

Hazard Phrases (GHS-MX)

: H316 – Causes mild skin irritation
 H317 – May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H401 - Toxic to aquatic life

Precautionary Phrases (GHS-MX)

: P261 – Avoid breathing mist, vapors or spray.
 P264 - Wash hands 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/ eye protection.
 P302+P352 – IF ON SKIN: Wash with plenty of water and soap.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P363 – Wash contaminated clothing before reuse.
 P501 - Dispose of contents/container to a licensed waste disposal contractor or collection site.

SECTION 3: Composition/information on ingredients

Mixture:

Name	CAS Registry Number	Concentration (% weight) *
Alcohols, C6-10, ethoxylated, propoxylated	68987-81-5	10.0 – 30.0
Dipropylene glycol	25265-71-8	1.0 – 5.0
Citral	5392-40-5	1.0 – 5.0
Lemon terpenes	68917-33-9	1.0 – 5.0

Hexyl cinnamic aldehyde	101-86-0	0.1 – 1.0
Hydroxy-citronellal	107-75-5	0.1 – 1.0
Geranyl acetate	105-87-3	0.01 – 0.2
Cyclamen aldehyde	103-95-7	0.01 – 0.2
Benzyl salicylate	118-58-1	<0.1

* The specific percentage is being withheld as a “trade secret” in accordance with 29 CFR 1910.1200(i).

SECTION 4: First-aid Measures

Description of necessary measures:

Inhalation: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if symptoms occur.

Skin contact: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists: Get medical advice/attention.

Ingestion: If ingested, and if person is conscious and lucid, rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Drink water and contact a physician.

Most important symptoms/effects, acute and delayed: May cause eye irritation including tearing and redness. May cause skin sensitization which may result in redness, irritation and swelling. May cause mild skin irritation including redness.

Indication of immediate medical attention and special treatment needed: No additional information available.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Product is not anticipated to support combustion. Use appropriate extinguishing media for surrounding materials.

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical: Not expected to be a fire/explosion hazard under normal conditions of use. Heat may build pressure and rupture closed containers. Thermal decomposition may generate: aldehydes, irritating vapours, carbon dioxide, carbon monoxide and unidentified organic compounds.

Special protective equipment and precautions for fire-fighters: Exercise caution when fighting any chemical fire. Wear complete protective clothing, including self-contained breathing apparatus.

SECTION 6: Accidental release measures / Measures to be taken in case of accidental spill or accidental release

Personal precautions, protective equipment and emergency procedures: Wear appropriate Personal Protective Equipment (PPE) (See information provided in Section 8). Avoid inhalation of vapors or mists of product and avoid all contact with eyes, skin and clothing.

Methods and material for containment and cleaning up: Cover spill with a non-combustible inert absorbent and place in an approved disposal container (See Section 13). In case of a large spill, ventilate the area and absorb with an inert absorbent. Avoid release to sewers or watercourses. Wear appropriate PPE when cleaning up spilled material (See Section 8).

SECTION 7: Handling and Storage

Precautions for safe handling: Wear appropriate personal protective equipment (See Section 8). Do not inhale vapors or mists of the product. Wash hands, forearms, face and clothing thoroughly after handling the product. Contaminated work clothing should not leave the workplace. Do not eat, drink or smoke while handling this product.

Conditions for safe storage, including any incompatibles: Keep in a cool, dry and well-ventilated area.

SECTION 8: Exposure controls/personal protection

Occupational exposure limits: The components are not known to have any applicable exposure limits. Check your local requirements.

Appropriate engineering controls: Use engineering controls to maintain airborne levels at the minimum level possible. Local ventilation is recommended. Ventilation rates should be matched to conditions.

Individual protection measures, such as personal protective equipment:

Eye/face protection: In case of use or storage where excessive vapor is released or if mists are formed, wear protective safety goggles to protect eyes from exposure to product.

Skin and Hand protection: Avoid skin contact. Wear suitable protective clothing and protective gloves.

Respiratory protection: If engineering controls do not keep airborne concentrations below acceptable limits an approved respirator must be worn. A chemical cartridge respirator should be used if excessive vapor or mists are present. Seek guidance from your respiratory protection supplier or your health and safety expert.

Thermal hazards: Not applicable based on recommended uses.

General provisions: Minimize exposure to skin and avoid generation of mists or excessive vapor. Ensure appropriate personal protective equipment is available in the workplace. Respect all appropriate legislation regarding health and safety in the workplace and follow all recommends from your health and safety committee.

SECTION 9: Physical and chemical properties

Appearance:	Slightly yellow liquid
Odor/odour:	Lemon scent
Odor/odour threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial Boiling Point and boiling range:	>200°F
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – lower (%):	Not applicable
Flammability limit – upper (%):	Not applicable
Explosive limit – lower (%):	Not applicable
Explosive limit – upper (%):	Not applicable
Vapor/Vapor pressure:	Not available
Vapor/Vapor density (air=1):	Not available
Relative density (water = 1):	Not available
Solubility(ies):	Soluble in water
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	Stable under normal anticipated conditions of use, but may react with incompatible materials.
Chemical stability:	Stable under normal anticipated conditions of use.
Possibility of hazardous reactions:	Hazardous reactions are not anticipated.
Conditions to avoid:	Avoid contact with incompatible materials. No other known conditions to avoid.
Incompatible materials:	Strong acids and bases, reducing agents and oxidizing agents

Hazardous decomposition products: Decomposition may generate: irritating vapours, carbon dioxide, carbon monoxide and unidentified organic compounds.

SECTION 11: Toxicological information

Information on likely routes of exposure: Ingestion, inhalation, contact with skin and eyes.

Symptoms related to the physical, chemical, and toxicological characteristics: May cause eye irritation including tearing and redness. May cause skin sensitization which may result in redness, irritation and swelling. May cause mild skin irritation including redness.

Delayed and immediate effects and chronic effects from short or long-term exposure:

Skin Irritation and Corrosion: Not anticipated to cause more than mild skin irritation based on information available on the product and the known components in the product. May cause dryness upon prolonged exposure.

Serious Eye Damage/ Eye Irritation: Causes serious eye irritation (Alcohols, C₆₋₁₀, ethoxylated, propoxylated).

Respiratory Sensitization: Not anticipated to cause respiratory sensitization based on information available on the product and the known components of the product.

Skin Sensitization: Based upon information on a component(s) of this product, this product may cause skin sensitization upon repeated or prolonged exposure (Citral, Hexyl cinnamic aldehyde, Hydroxy-citronellal, Geranyl acetate and Cyclamen aldehyde).

Germ Cell Mutagenicity: Not anticipated to cause mutagenicity based on information available on the product and the known components of the product.

Carcinogenicity: Not anticipated to cause cancer based on information available on the product. None of the ingredients in this product is listed as a carcinogen by ACGIH, IARC or NTP.

Reproductive Toxicity: Not anticipated to cause reproductive toxicity, including effects on fertility, the unborn child or via lactation based upon available information and the known components of the product.

Specific Target-Organ Toxicity – Single Exposure: Not anticipated to cause specific target organ toxicity following a single exposure, based on information available on the product and the known components of the product.

Specific Target-Organ Toxicity – Repeated Exposure: Not anticipated to cause specific target organ toxicity following repeated or prolonged exposure, based on information available on the product and the known components of the product.

Aspiration Hazard: Not anticipated to be an aspiration hazard if swallowed.

Numerical measures of toxicity:

Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)	
LD50 oral rat	2380-2745 mg/kg
LD50 dermal rabbit	>2000 mg/kg
LC50 inhalation rat	>50 mg/L/4H

Acute Toxicity Estimate (ATE) of the product:

- Acute Toxicity (oral) – >5000 mg/kg
- Acute Toxicity (dermal) – >5000 mg/kg
- Acute Toxicity (inhalation) – >50 mg/L/4H

Further information: Not available

SECTION 12: Ecological information

Ecotoxicity: Acute Ecotoxicity Data

Product data: Not available

Ingredient data:

Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)	
LC ₅₀ (Fish – Fathead minnow) (<i>Pimephales promelas</i>)	1-10 mg/L/96H
EC ₅₀ Aquatic invertebrates	1-10 mg/L/48H
EC50 Algae	1-10 mg/L/120H

Persistence and Degradability: No biodegradation data is available for this product; however, the components of this product are all anticipated to be at least inherently biodegradable.

Bioaccumulative Potential: Unknown

Mobility in Soil: Not available

Other adverse effects: None known

SECTION 13: Disposal considerations / Information on the disposal of products

Disposal instructions:

Product: Dispose in accordance with applicable federal, state/provincial, and local regulations.

Contaminated packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport Information

Land transport DOT (US-DOT): Not regulated

TDG (Transportation of Dangerous Goods) (Canada): Not regulated

IATA (International Air Transport Association): Not regulated

IMDG (International Maritime Dangerous Goods Code): Not regulated

SECTION 15: Regulatory Information

Canada:

Classification according to the Hazardous Products Regulations (WHMIS 2015): (See Section 2) This SDS complies with the Hazardous Products Regulations (WHMIS 2015).

Canadian Environmental Protection Act (CEPA) Domestic Substances List (DSL): One or more components of this product are not listed on the DSL.

Substances Categorized in under the Categorization and Screening of the DSL (CSDSL) efforts: A product component was categorized in for further screening under the CSDSL (Hexyl cinnamic aldehyde).

Environment Canada’s (EC) National Pollutant Release Inventory (NPRI): No reviewed components are listed on the 2014-2015 NPRI list.

Environmental Emergencies Regulations: No reviewed components require an Environmental Emergency Plan (E2 Plan) under the EER.

Mexico:

Classification according to NMX-R-019-SCFI-2011 harmonized system of classification and hazard communication of chemicals and NOM-018-STPS-2000, Harmonized System for the Identification and Communication of Hazards and Risks of Hazardous Chemicals in the Workplace: (See section 2) This Safety Data Sheet complies with NOM-018-STPS-2000.

USA:

Classification according to the OSHA Hazard Communication Standard (HCS) 2012: (See Section 2) This Safety Data Sheet complies with the OSHA Hazcom 2012 requirements.

TSCA Inventory: All applicable components of this product are listed on the TSCA Inventory or are exempt from listing on the TSCA Inventory.

Superfund or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): No known components are present on the CERCLA list.

Emergency Planning and Community Right to Know Act (EPCRA) 302 (SARA 302): No reviewed components are listed.

SARA 313 – Toxic Release Inventory (TRI): No known components of this product are present on the TRI.

California Proposition 65: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

New Jersey Right To Know (NJ-RTK): The following known components of this product are present on the NJ-RTK list: benzyl acetate (CAS# 140-11-4).

SECTION 16: Other Information / Other information on the preparation and revision of safety data sheets

Revision Date: March 29, 2018

Acronyms used in this SDS:

ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
EC50	Effective Concentration, 50%
GHS-CA/US/MX	Globally Harmonized System – Canada / United States / Mexico (as appropriate)
HMIS	Hazardous Materials Identification System
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration (US)
NFPA	National Fire Protection Association (US)
NIOSH	National Institute for Occupational Safety and Health (US)
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
US DOT	United States Department of Transport
WEEL	Workplace Environmental Exposure Levels

Disclaimer:

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