



# CONSUME<sup>®</sup> ECO-LYZER

neutral disinfectant

Consume Eco-Lyzer is a revolutionary quaternary based disinfectant concentrate formulated to destroy pathogenic and odor causing bacteria and viruses\*, remove soils and leave natural digesters behind for residual control of nuisance odors. The product is teal in color and slightly viscous.



Providing Quality Maintenance and Chemical Specialty Solutions with Unparalleled Customer Service



Spartan Chemical Company, Inc.  
1110 Spartan Drive  
Maumee, OH 43537  
1-800-537-8990  
www.spartanchemical.com

#### HOW DOES IT WORK?

Ceramic, quarry tile and concrete floors are hard surfaces and generally easy to clean. However, the grouting around ceramic and quarry tile, as well as the pits and cracks which cause uneven surfaces that are porous and consequently, are a breeding ground for various pathogens and harbor soils and organics that cause unsightly appearance and foul odors. It usually takes several products to clean, disinfect and deodorize the surfaces and none provide long-term odor elimination. Normal cleaning with Consume Eco-Lyzer degrades the trapped organics, in effect providing continuous deep cleaning and deodorizing over an extended period of time.

HOW DOES THIS MONUMENTAL ADVANCED TECHNOLOGY BENEFIT YOU? Consume Eco-Lyzer does the job of three traditional products!

- Destroys pathogenic and odor causing bacteria.
- Leaves behind natural digesters for continuous and extended control of persistent, offensive odors.
- Cleans & disinfects.
- Simplifies training procedures because one product does many tasks for different applications.
- May reduce risk and liability. Neutral pH. One product i.e. less employee confusion / less chance of error.
- Reduces chemical inventory. Replaces two or three products.

- Continuous odor control saves labor hours.
- Saves money! Economical concentrate dilutes 2 oz. to 6 oz. Facility remains odor free longer which can reduce frequency of maintenance schedule.

#### STILL MORE BENEFITS!

Aggressive Disinfectant Action! Effective against pathogenic and odor-causing bacteria: *Proteus vulgaris*, *Pseudomonas putrefaciens*, *Serratia odorifera*, *Staphylococcus aureus* and *Salmonella choleraesuis*.

Virucidal: Effective against HIV-1 (AIDS Virus), Herpes Simplex Type 1, and Influenza A2.

EPA Reg. No. 5741-24

EPA Est. No. 5741-OH-1

#### DIRECTIONS FOR USE:

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

#### GENERAL PURPOSE CLEANING AND DEODORIZING:

For pre-cleaning or degreasing of heavily soiled surfaces, dilute Consume Eco-Lyzer from 2 oz. per gallon to 6 oz. per gallon depending on the soil load. Apply the product with a cloth, mop, sponge, or by coarse foaming. Scrub surface. Rinse with water or allow to air dry.

#### GENERAL PURPOSE DISINFECTION

Remove gross filth and heavy soil deposits before disinfection. Prepare use-solution of Consume Eco-Lyzer at 2 oz. per gallon of water. Thoroughly saturate surfaces for 10 minutes using a cloth,

mop, sponge, or coarse foamer. For virucidal\* activity a 5-minute contact time is adequate. Rinse with water or allow to air dry. Prepare fresh use-solution for each use, then discard.

**Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of this or any Spartan product. If questions remain, consult your employer or a physician. Material Safety Data Sheets for all Spartan products are available from your authorized Spartan distributor or by visiting [www.spartanchemical.com](http://www.spartanchemical.com).**

#### SPECIFICATION DATA:

Specific Gravity – 0.994 @ 24°C/75°F

pH (Concentrate) – 6.5 - 7.5

Density – 8.27 lbs./gal. @ 24°C/75°F

Viscosity – 15-30 cps

#### Stability:

- a. Shelf @ 24°C/75°F – one year
- b. Accelerated @ 38°C/100°F – three months
- c. Freeze/Thaw Cycle – If frozen, shake to remix ingredients

Contains over 500 billion microorganisms per gallon

Certified Salmonella Free

Biodegradable

Phosphate free



**ISSA** MEMBER  
The Experts  
on Cleaning and Maintenance

Distributed by

#### PACKAGING

329755	55-gallon drum
329730	30-gallon drum
329715	15-gallon drum
329705	5-gallon pail
329704	1-gallon (4 per case)
459702	2-liter (4 per case)



Label copy is provided in English and Spanish. Secondary labels are also available.

**GUARANTEE:** Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of date of manufacture.

For institutional and industrial use only

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# Safety Data Sheet

## Spartan Chemical Company, Inc.

Revision Date: 14-Aug-2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name:** CONSUME ECO-LYZER  
**Product Number:** 3297  
**Recommended Use:** Disinfectant  
**Uses Advised Against:** For Industrial and Institutional Use Only

**Manufacturer/Supplier:** Spartan Chemical Company, Inc.  
1110 Spartan Drive  
Maumee, Ohio 43537 USA  
800-537-8990 (Business hours)  
[www.spartanchemical.com](http://www.spartanchemical.com)

**24 Hour Emergency Phone Numbers:**

**Medical Emergency/Information:** 888-314-6171  
**Transportation/Spill/Leak:** CHEMTREC 800-424-9300

### 2. HAZARDS IDENTIFICATION

**GHS Classification**

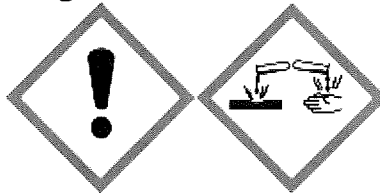
Acute Toxicity - Oral: Category 4  
Skin Corrosion/Irritation: Category 1  
Serious Eye Damage/Eye Irritation: Category 1

**GHS Label Elements**

**Signal Word:**

**Danger**

**Symbols:**



**Hazard Statements:**

Harmful if swallowed.  
Causes severe skin burns and serious eye damage.

**Precautionary Statements:**

**Prevention:**

Wash hands and any exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product  
Do not breathe mist, vapors or spray.  
Wear protective gloves. Wear eye / face protection. Wear protective clothing.

**Response:**

**IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**

**-Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**-Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

**-Inhalation:**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**-Ingestion:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**-Specific Treatment:**

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents and container in accordance with local, state and federal regulations.

**Hazards Not Otherwise Classified:** Not Applicable

**Other Information:**

- Corrosive.
- Inhalation of vapors or mist may cause respiratory irritation.
- This product contains living bacterial spores. Avoid contact with open wounds, broken skin or mucus membranes.
- Keep out of reach of children.
- NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

0.48104% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
water	7732-18-5	60-100
dialkyl dimethyl ammonium chloride	68424-95-3	1-5
alkyl dimethyl benzyl ammonium chloride	68424-85-1	1-5
alcohol ethoxylate	34398-01-1	1-5
ethanol	64-17-5	1-5
bacterial spores	PROPRIETARY	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**-Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

**-Skin Contact:** Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Apply a topical antiseptic agent to open wounds or broken skin. Wash contaminated clothing before reuse.

**-Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

**-Ingestion:** Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.

**Note to Physicians:** NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire

**Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.

**Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

**Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.

**Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

## 7. HANDLING AND STORAGE

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

**Engineering Controls:** Provide good general ventilation.  
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.  
Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

**Personal Protective Equipment**

**Eye/Face Protection:** Wear splash goggles.

**Skin and Body Protection:** Wear rubber or other chemical-resistant gloves.

**Respiratory Protection:** Not required with expected use.  
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

**General Hygiene Considerations:** Wash hands and any exposed skin thoroughly after handling.  
See 29 CFR 1910.132-138 for further guidance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/Physical State:</b>	Liquid
<b>Color:</b>	Light blue
<b>Odor:</b>	Floral fragrance
<b>pH:</b>	6.0-7.0
<b>Melting Point / Freezing Point:</b>	No information available.
<b>Boiling Point / Boiling Range:</b>	100 °C / 212 °F
<b>Flash Point:</b>	> 100 °C / > 212 °F ASTM D56
<b>Evaporation Rate:</b>	< 1 (Butyl acetate = 1)
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper Flammability Limit:</b>	No information available.
<b>Lower Flammability Limit:</b>	No information available.
<b>Vapor Pressure:</b>	No information available.
<b>Vapor Density:</b>	No information available.
<b>Specific Gravity:</b>	0.995
<b>Solubility(ies):</b>	Soluble in water
<b>Partition Coefficient:</b>	No information available.
<b>Autoignition Temperature:</b>	No information available.
<b>Decomposition Temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.

## 10. STABILITY AND REACTIVITY

**Reactivity:** This material is considered to be non-reactive under normal conditions of use.

**Chemical Stability:** Stable under normal conditions.



**Possibility of Hazardous Reactions:** Not expected to occur with normal handling and storage.  
**Conditions to Avoid:** Extremes of temperature and direct sunlight.  
**Incompatible Materials:** Strong oxidizing agents. Strong acids.  
**Hazardous Decomposition Products:** May include carbon monoxide, carbon dioxide (CO<sub>2</sub>) and other toxic gases or vapors.

## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Eyes, Skin, Ingestion, Inhalation.  
**Symptoms of Exposure:**  
**-Eye Contact:** Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.  
**-Skin Contact:** Pain, redness, blistering and possible chemical burn.  
**-Inhalation:** Nasal discomfort and coughing.  
**-Ingestion:** Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.  
**Immediate, Delayed, Chronic Effects**  
**Product Information:** Data not available or insufficient for classification.

### Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 1712 mg/kg  
 ATEmix (dermal): 5560 mg/kg  
 ATEmix (inhalation-dust/mist): 23.2 mg/l

### Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg ( Rat )	Not Available	Not Available
alkyl dimethyl benzyl ammonium chloride 68424-85-1	= 426 mg/kg ( Rat )	Not Available	Not Available
ethanol 64-17-5	= 7060 mg/kg ( Rat )	Not Available	= 124.7 mg/L ( Rat ) 4 h

**Carcinogenicity:** No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
ethanol 64-17-5	Not Available	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	Not Available	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Other Adverse Effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:** Dispose of in accordance with federal, state and local regulations.  
**Contaminated Packaging:** Dispose of in accordance with federal, state and local regulations.

## 14. TRANSPORT INFORMATION

**DOT:** Not Regulated  
**Proper Shipping Name:** Non Hazardous Product  
**Special Provisions:** Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

**IMDG:** Not Regulated  
**Proper Shipping Name:** Non Hazardous Product

## 15. REGULATORY INFORMATION

### **TSCA Status:** (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

### **SARA 313**

This product does not contain listed substances above the "de minimus" level

### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard:</b>	Yes
<b>Chronic Health Hazard:</b>	No
<b>Fire Hazard:</b>	No
<b>Sudden release of pressure hazard:</b>	No
<b>Reactive Hazard:</b>	No

### **California Proposition 65**

This product is not subject to warning requirements under California Proposition 65.

### **EPA Pesticide Registration Number:** 5741-24

#### **EPA Statement:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide Label:**

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Harmful if absorbed through the skin. May be fatal if inhaled. Do not breathe vapor or spray mist. Do not get in eyes, on skin, or on clothing. Wear protective eye wear (goggles/face shield/safety glasses), rubber gloves, and protective clothing. Wash thoroughly with soap and water after handling and before eating, drinking, smoking tobacco, chewing gum or using the toilet. Remove contaminated clothing and wash clothing before reuse. Use-Dilution Precautions: Harmful if inhaled. Avoid breathing vapor and spray mist. Remove contaminated clothing and wash clothing before reuse. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles /face shield / safety glasses). Wash thoroughly with soap and water after handling.

## 16. OTHER INFORMATION

<b>NFPA</b>	<b>Health Hazards:</b> 3	<b>Flammability:</b> 0	<b>Instability:</b> 0	<b>Special:</b> N/A
<b>HMIS</b>	<b>Health Hazards:</b> 3	<b>Flammability:</b> 0	<b>Physical Hazards:</b> 0	

**Revision Date:** 14-Aug-2015

**Reasons for Revision:** Section 11

#### **Disclaimer:**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

