

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT: PRODUCT: **E-45** DRAIN AND ODOR TREATMENT

GENERAL DESCRIPTION:	Liquid Biological Drain Opener
RECOMMENDED USE	
SUPPLIER/MANUFACTURER:	EcoLogic Solutions Holdings Inc.
ADDRESS:	63 Flushing Ave, Unit 267, Brooklyn, NY 11205
EPA ESTABLISHMENT NO.	
<b>EMERGENCY PHONE:</b>	<b>(800) 477-2577</b>
BUSINESS PHONE:	(718) 435-5422 (Product Information)
E-MAIL:	info@ecologicsolutions.com
DATE OF PREPARATION:	11/25/2011
DATE OF LAST REVISION:	3/26/15

### SECTION 2 – HAZARD IDENTIFICATION

THRESHOLD LIMIT: Not established  
ACUTE TOXICITY: Non-Toxic

GHS HAZARD SYMBOL:  (mild-moderate irritant)

<u>HAZARD RATING</u>	<b>HMIS</b>	<b>NFPA</b>
HEALTH	1	1
FLAMMABILITY	0	0
REACTIVITY	0	0
SPECIAL	<b>none</b>	<b>none</b>



GHS PRECAUTIONARY STATEMENTS: **WARNING** – This product may be harmful if swallowed and may cause mild- moderate irritation in some cases.

CLASS 1 MICRO-ORGANISM: Class 1 microorganisms are defined by the Centers for Disease Control as not likely to cause disease in healthy humans and animals. **However, persons who have a compromised Immune System should avoid contact with open wounds and/or breathing dust or mist from manufacturing processes.**

\* Strong acids or alkali compounds may inactivate biological cultures

HEALTH HAZARDS/EFFECTS OF OVEREXPOSURE:

**Ingestion:** Ingestion may result in abdominal pain, nausea and vomiting. **Eye Contact:** May cause mild-moderate eye irritation. **Skin Contact:** May cause mild skin irritation after extended

contact. **Inhalation:** May cause mild irritation to the lungs and mucus membranes. **Signs and Symptoms of Over Exposure:** None Known **Aggravated Medical Conditions:** None known, except persons with respiratory problems should avoid breathing any mist from this product

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS #	% by Weight
Deionized Water	7732-18-5	to 100
Proprietary Surfactant Blend	Proprietary	10-15
Sodium Gluconate	527-07-1	3 - 8
Sodium Citrate	6132-04-3	3 – 8
Enzyme/Bacteria Consortium**	Proprietary	0 - 5
Sodium Benzoate	532-32-1	0 – 2
Natural Lemon Fragrance		0 – 1
Food Grade Vegetable Dye - GREEN		0 - 1

\*\*ONLY – Class 1 Non-Pathenogenic  
 INGREDIENT DETAIL & BLEND IS PROPRIETARY.  
 ALL COMPONENTS APPEAR ON THE TSCA INVENTORY.

## SECTION 4 - FIRST AID MEASURES

**EMERGENCY FIRST AID PROCEDURES:**

**INGESTION:** Watch victim for any signs of illness, induce vomiting only if advised by a physician.  
**EYE CONTACT:** Rinse eyes with water for fifteen minutes, if irritation persists, see a physician.  
**INHALATION:** Move to fresh air and avoid breathing dust from product. If breathing problems develop, seek the care of a physician.  
**SKIN CONTACT:** Wash the product off the skin with soap and water, if irritation develops seek the care of a physician.

**ALWAYS SEEK MEDICAL ATTENTION IF NECESSARY IN AN EMERGENCY**  
**24-HR MEDICAL EMERGENCY PHONE: 1.800.477.2577**

## SECTION 5 – FIRE FIGHTING MEASURES

**FLASH POINT:** None/Nonflammable- This product is not considered a fire hazard, nor will it support combustion.

**EXTINGUISHING MEDIA:** Use standard firefighting measures to extinguish fires involving this material (water spray, dry chemicals or foam).

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**SPILL/RELEASE PROCEDURES:** Contain and collect material, place in proper container for reuse or disposal.

**WASTE DISPOSAL PROCEDURES:** Contain and collect material, place in proper container for reuse or disposal. Dispose of materials in accordance with all federal, state and local laws.

## SECTION 7 – HANDLING AND STORAGE

Keep out of reach of children, food items and potable water. Store in an area out of the direct sunlight, keep container closed when not in use, avoid storing in a damp environment.

Avoid eye and prolonged skin contact. Always wash hands with soap and water before handling food or smoking.

Use good chemical hygiene practices when working with any chemical.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE LIMIT GUIDELINES:** None Established

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the threshold limits provided above, *if applicable*.

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable.

No protective equipment is required for normal use, though a face-mask or other appropriate measures may be taken as need determines/to prevent aggravating a pre-existing condition.

**EYE PROTECTION:** No protective equipment is required for normal use, though safety glasses or chemical goggles may be worn as need determines/to prevent aggravating a pre-existing condition

**HAND PROTECTION:** No protective equipment is required for normal use, though gloves may be worn as need determines/prevent aggravating a pre-existing condition.

**BODY PROTECTION:** No protective equipment is required for normal use.

## SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE:

100 C

SPECIFIC GRAVITY: (Water = 1)

Approximately 1

VAPOR PRESSURE AT 20C: (MM of HG)

Equivalent to water

VAPOR DENSITY: (Air = 1)

Equivalent to water

SOLUBILITY IN WATER:

Infinite

SOLUBILITY IN SOLVENT:

Miscible

EVAPORATION RATE:

ND

APPEARANCE:

Green Liquid

ODOR:

Lemon/Citrus

PH RANGE:

7.5 – 8.0

VOC:

<1%

## SECTION 10- STABILITY AND REACTIVITY

**INCOMPATIBILITY WITH OTHER MATERIALS:** None known

**HAZARDOUS DECOMPOSITION MATERIALS:** None known

**HAZARDOUS POLYMERIZATION:** Will not occur

**STABILITY:** Stable under normal conditions

**\*CONDITIONS TO AVOID:** Strong acids or alkali compounds may inactivate biological cultures

## SECTION 11- TOXICOLOGICAL INFORMATION

**Oral Toxicity:** This product is non-toxic based upon current information available to EcoLogic Solutions and provided by all ingredient manufacturers. **No PBTs:** This product contains none of the persistent, bioaccumulative and toxic chemicals (**PBT**) as listed by EPA: dioxins & furans, toxaphene, PCBs, Mirex, Mercury & compounds, Octachlorostyrene, alkyl-lead, DDT, Hexachlorobenzene, aldrin/dieldrin, benzo(a)pyrene and chlordane. **No Butyl:** Contains no 2-butoxyethanol (butyl). **No Endocrine Modifiers:** Based upon information provided by manufacturers of all ingredients used to manufacture this product, none of the ingredients used in this product contain APE, OPE, NPE or dibutyl phthalate. **Contains no sodium hypochlorite. Contains no perchloroethylene.**

## SECTION 12 – ECOLOGICAL INFORMATION

The ingredients are readily biodegradable. After this product's use, it will biodegrade in sewage systems and/or the environment. Contains no nonyl phenol ethoxylates or alkyphenol ethoxylates (**APE**). This product contains no ozone-depleting chlorinated compounds as specified by the Montreal Protocol. This product contains no paradichlorobenzene 1,4-dioxane, sodium hypochlorite, NTA or sodium EDTA. Product-formulation can benefit waste water.

## SECTION 13- DISPOSAL CONSIDERATIONS

**Waste Disposal Information:** No special method. Observe all applicable Federal, State and Local regulations, rules and/or ordinances regarding disposal of non-hazardous materials. Discarded product is not a hazardous waste according to OSHA. This product is not considered a hazardous waste as defined per OSHA. Observe all applicable Federal, State and Local regulations, rules and/or ordinances regarding disposal of non-hazardous materials.

## SECTION 14 – TRANSPORT INFORMATION

**DOT EMERGENCY 24-HR: 1.800.477.2577**

**U.S. DOT Class:** Not Regulated

**DOT Shipping Name:** Compound, Cleaning Liquid

## SECTION 15- REGULATORY INFORMATION

**SARA Title III Section 313 and 40 CFR Part 372 Notification:** See section 2.

No ingredients in this product are currently listed as carcinogens by EPA or OSHA. All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

## SECTION 16- OTHER INFORMATION

Always follow label directions carefully when using this or any other chemical product. If information about this product is required, please contact EcoLogic Solutions at 1.800.477.2577 or visit our website at [www.ecologicsolutions.com](http://www.ecologicsolutions.com).

Keep Safety Data Sheets filed and organized in an area accessible to workers according to the Hazard Communication Standards.

*All information contained in this Safety Data Sheet is provided to the best of EcoLogic Solutions knowledge. No warranty is made with respect to this information, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Users are responsible for verifying the information under their own operating conditions to determine whether the products listed in the SDS are suitable for their intended use. The information contained herein is confidential, intended solely for the user's internal use and may not be provided to any third parties. Users are responsible for compliance with all laws and regulations as may be required by their receipt of the information and use of the products provided with this SDS.*