

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT: GREEN MACHINE LIQUID DETERGENT

GENERAL DESCRIPTION: Dish Machine Liquid Detergent  
RECOMMENDED USE: Institutional Detergent  
SUPPLIER/MANUFACTURER: EcoLogic Solutions Holdings Inc.  
ADDRESS: 63 Flushing Ave, Unit 267, Brooklyn, NY 11205  
**EMERGENCY PHONE: (800) 477-2577**  
BUSINESS PHONE: (718) 435-5422 (Product Information)  
E-MAIL: info@ecologicsolutions.com  
DATE OF PREPARATION: 3/26/2014  
DATE OF LAST REVISION: 5/1/2015

### SECTION 2 – HAZARD IDENTIFICATION

Skin Corrosion/Irritation  
Serious Eye Damage/Eye Irritation

Category 1 Subcategory 1A  
Category 1



GHS HAZARD SYMBOL:

<u>HAZARD RATING</u>	<b>HMIS</b>	<b>NFPA</b>
HEALTH	3	3
FLAMMABILITY	0	0
REACTIVITY	0	0
SPECIAL	none	none

GHS HAZARD STATEMENTS: **DANGER** – Causes skin burns and eye damage.

GHS PRECAUTIONARY STATEMENTS:

**Prevention**

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection.

**General Advice**

- Immediately call a POISON CENTER or doctor/physician
- Specific treatment (see supplemental instructions on the administration of antidotes on this label)

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician.

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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

HEALTH HAZARDS/EFFECTS OF OVEREXPOSURE:

**Ingestion:** May cause mild-moderate gastrointestinal tract irritation; swallowing may result in abdominal pain or vomiting (with blood). **Eye Contact:** May cause moderate eye irritation. **Skin Contact/Absorption:** May cause mild skin irritation. Systematic absorption of toxic concentrations is not expected. **Inhalation:** May cause mild nose, throat and respiratory tract irritation. **Preexisting conditions:** Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired function from preexisting disorders may be aggravated by exposure to this product.

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS #	% by Weight
Sodium hydroxide	1310-73-2	1-5

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4 - FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

**INGESTION:** Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical attention is required

**INHALATION:** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

**SKIN CONTACT** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.

**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:

#### Personal precautions, protective equipment and emergency procedures

##### Personal Precautions

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material can cause surfaces to become very slippery.

##### Environmental Precautions

##### Environmental Precautions

Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information

#### Methods and materials for containment and cleaning up

##### Methods for Containment

Stop leak if you can do it without risk

##### Methods for Cleaning Up

Contain spill, dilute with water and neutralize as required. Wash away small spills with plenty of water.

**WASTE DISPOSAL PROCEDURES:** Dispose of this product or its residues in accordance with all local, state and federal requirements.

## SECTION 7 – HANDLING AND STORAGE

#### Precautions for safe handling

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

#### Conditions for safe storage, including any incompatibilities

##### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep from freezing. Keep container closed when not in use. Keep out of the reach of children.

**Incompatible Products** Acids. Soft metals. Aluminum. Do not mix with anything but water.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE LIMIT GUIDELINES:

**Chemical Name**  
Sodium hydroxide  
1310-73-2

**ACGIH TLV**  
Ceiling: 2 mg/m<sup>3</sup>

**OSHA PEL**  
(vacated) Ceiling: 2  
mg/m<sup>3</sup>

**NIOSH IDLH**  
Ceiling: 2 mg/m<sup>3</sup>

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

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

No protective equipment is required for normal use in dilution. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**EYE PROTECTION:** Chemical splash goggles.

**HAND PROTECTION:** Rubber/latex gloves/

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

**HYGIENE MEASURES:** Handle in accordance with good industrial hygiene and safety practices

## SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE:	NA
SPECIFIC GRAVITY: (Water = 1)	NA
VAPOR PRESSURE AT 20C: (MM of HG)	No data available
VAPOR DENSITY: (Air = 1)	No data available
SOLUBILITY IN WATER:	100%
SOLUBILITY IN SOLVENT:	No data available
EVAPORATION RATE:	No Data available
APPEARANCE:	Liquid
ODOR:	No information available
pH – In Use	NA
VOC:	No data available

## SECTION 10- STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Spills or careless handling. Incompatible products.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Acids. Soft metals. Aluminium. Do not mix with anything but water

**HAZARDOUS DECOMPOSITION MATERIALS:** None known based on information supplied.

**HAZARDOUS POLYMERIZATION:** Will not occur

**STABILITY:** Unstable

## SECTION 11- TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Inhalation**

May cause irritation of respiratory tract.

**Eye Contact**

Causes serious eye damage.

**Skin Contact**

Causes severe skin burns.

**Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

<b>Chemical Name</b> Sodium hydroxide	<b>LD50 Oral</b> = 214 mg/kg ( Rat )	<b>LD50 Dermal</b> -	<b>LC50 Inhalation</b> -
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**Symptoms related to the physical, chemical and toxicological characteristics**  
**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no ingredient listed as a carcinogen.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity - Product**

*The following values are calculated based on chapter 3.1 of the GHS document:*

<b>LD50 Oral</b>	2504 mg/kg; Acute toxicity estimate
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## SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

<b>Chemical Name</b>	<b>Toxicity to Algae</b>	<b>Toxicity to Fish</b>	<b>Toxicity to Microorganisms</b>	<b>Daphnia Magna (Water Flea)</b>
Sodium hydroxide 1310-73-2		LC50 96 h: = 80 mg/L static (Gambusia affinis) No information available.		

**Persistence and Degradability**

<b>Bioaccumulation</b>	No information available.
<b>Chemical Name</b>	<b>Log Pow</b>
Sodium hydroxide	0.83

**Other Adverse Effects**  
No information available.

## SECTION 13- DISPOSAL CONSIDERATIONS

**Waste Disposal Information:** No special method. Observe all applicable Federal, State and Local regulations, rules and/or ordinances regarding disposal. Discarded product is not a hazardous waste according to OSHA.

**Contaminated Packaging**

<b>Chemical Name</b> Sodium hydroxide	Do not re-use empty containers. <b>California Hazardous Waste</b> Toxic Corrosive
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**SECTION 14 – TRANSPORT INFORMATION**

**DOT EMERGENCY 24-HR: 1.800.477.2577**  
**DOT Shipping Name:** Compound, Cleaning Liquid

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

**SECTION 15- REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>EINECS</b>	Complies
<b>IECSC</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**Legend**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**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

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

<b>Chemical Name</b>	<b>CWA - Reportable Quantities</b>	<b>CWA - Toxic Pollutants</b>	<b>CWA - Priority Pollutants</b>	<b>CWA - Hazardous Substances</b>
Sodium hydroxide	1000 lb		X	

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

<b>Chemical Name</b>	<b>Hazardous Substances RQs</b>	<b>Extremely Hazardous Substances RQs</b>	<b>RQ</b>
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

**U.S. State Right-to-Know Regulations**

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	X	X	X		X

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**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.*