

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT: **GMSD** – GREEN MACHINE SOLID DISH MACHINE DETERGENT

GENERAL DESCRIPTION:	Green Machine Solid Dish Machine Detergent
SUPPLIER/MANUFACTURER:	EcoLogic Solutions Holdings Inc.
ADDRESS:	63 Flushing Ave, Unit 267, Brooklyn, NY 11205
EMERGENCY CONTACT:	Chemtrec, Use Company Code: A814
EMERGENCY PHONE:	(800) 477-2577
BUSINESS PHONE:	(718) 435-5422 (Product Information)
E-MAIL:	info@ecologicsolutions.com
DATE OF PREPARATION:	2/24/2014
DATE OF LAST REVISION:	5/25/2015

SECTION 2 – HAZARD IDENTIFICATION

THRESHOLD LIMIT: Not established

GHS HAZARD SYMBOL:



<u>HAZARD RATING</u>	<u>HMIS</u>	
HEALTH	2	
FLAMMABILITY		0
REACTIVITY	1	
PPE	B	

GHS SIGNAL WORD: **Danger**

GHS HAZARD STATEMENTS:

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

GHS PRECAUTIONARY STATEMENTS:

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS RESPONSE PHRASES:

P301+312 – IF SWALLOWED: Seek medical attention if you feel unwell.
 P330 – Rinse mouth.
 P303+361+353 – IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 – Wash contaminated clothing before reuse.
 P305+351+338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+330+331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P204+340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P310 – Immediately call a POISON CENTER/Doctor.

HEALTH HAZARDS/EFFECTS OF OVER-EXPOSURE:

Ingestion: Harmful if swallowed. Causes burns. No hazard expected in normal industrial use.
Eye Contact: Causes eye burns. **Skin Contact/Absorption:** Causes skin burns. Systematic absorption of toxic concentrations is not expected. **Inhalation:** No hazard expected in normal industrial use. **Potential Health Effects (Acute and Chronic):** Adverse reproductive effects have been reported in animals. Chronic: none.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS #	% by Weight
Silicic Acid (H ₂ SiO ₃), Disodium Salt	6834-92-0	<=47
Phosphonic acid, [nitrilotros(methylene)]tri-, sodium salt	20592-85-2	<=3

SECTION 4 - FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

INGESTION: Do not give liquids if victim is unconscious or very drowsy. Do NOT induce vomiting. **Get medical attention.**
INHALATION: Remove to fresh air and provide oxygen if breathing is difficult. Get medical attention.

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

SKIN CONTACT: Remove contaminated clothing and footwear immediately. Wash off skin with soap and plenty of water. Wash clothing and footwear before reuse. Get medical attention if irritation persists.

ALWAYS SEEK MEDICAL ATTENTION IF NECESSARY IN AN EMERGENCY

NOTE TO PHYSICIAN: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. None known.

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

Use proper personal protective equipment as indicated in Section 8.

SPILL/RELEASE PROCEDURES: Absorb with inert mater (eg, vermiculite, sand or earth), then place in suitable container. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Do not let this chemical enter the environment.

WASTE DISPOSAL PROCEDURES: Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Do not let product enter drains.

SECTION 7 – HANDLING AND STORAGE

Keep out of reach of children. Avoid eye and prolonged skin contact.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMIT GUIDELINES: None Established

VENTILATION AND ENGINEERING CONTROLS: There are no special ventilation requirements. Use with adequate ventilation to ensure exposure levels are maintained below the threshold limits provided above, *if applicable*. Facilities storing or utilizing this material should be equipped with and eyewash facility and safety shower.

RESPIRATORY PROTECTION: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respirator protection is not normally required. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. A respiratory protection program that meets OSHA's 29 CFR 1910.34 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

EYE PROTECTION: No protective equipment is required for normal use in dilution. When handling concentrate, 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 in dilution. When handling concentrate, wear appropriate protective gloves to prevent skin exposure.

BODY PROTECTION: No protective equipment is required for normal use in dilution. Choose body protection according to the amount and concentration of dangerous substance at the work place. Wear appropriate clothing to prevent skin exposure.

WORK/HYGIENIC/MAINTENANCE PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
APPEARANCE AND ODOR:	White solid with bland odor
MELTING POINT:	NP
BOILING POINT:	NP
AUTOIGNITION POINT:	NP
FLASH POINT:	NP
EXPLOSIVE LIMITS	LEL: UEL:
SPECIFIC GRAVITY (WATER = 1):	NP
DENSITY:	>=1.5 G/CC
VAPOR PRESSURE (vs. Air or mmHg):	NP
VAPOR DENSITY (vs. Air =1):	NP
EVAPORATION RATE:	NP
SOLUBILITY IN WATER:	100% AT 72.0 F
SOLUBILITY NOTES:	Soluble in water. Soluble in ethanol and acetone.
SATURATED VAPOR CONCENTRATION:	NP
VISCOSITY:	NP
pH:	>11.5
PERCENT VOLATILE:	NP

SECTION 10- STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Strong oxidizing agents. Strong acids.
INCOMPATIBILITY WITH OTHER MATERIALS: Strong bases, strong acids.
HAZARDOUS DECOMPOSITION MATERIALS: formed under fire conditions. Sodium oxides, silicon oxides, None. Carbon monoxide. Carbon dioxide.
HAZARDOUS POLYMERIZATION: Will not occur
STABILITY: Stable under normal condition

SECTION 11- TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:

No information found.

Teratogenicity: No information available.

Irritation or Corrosion: Skin - rabbit - Severe skin irritation - -24 h.

Acute dermal toxicity: LD50 rabbit

Dose > 2,000 mg/kg

Skin irritation: Rabbit
Non irritant

Eye irritation: Rabbit
minimal irritant. .The acute oral toxicity of this product has not been tested. When sodium silicates were tested on a 100% solids basis, their single dose acute oral LD50 in rats ranged from 1500 mg/kg to 3200 mg/kg. Acute lethality resulted from

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 68-04-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 497-19-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS # ACGIH	Hazardous Components (Chemical Name) OSHA	NTP	IARC
6834-92-0 n.a.	Silicic acid (H ₂ SiO ₃), Disodium salt	n.a	n.a. n.a.

SECTION 12 – ECOLOGICAL INFORMATION

General Ecological Information:

Environmental: Not regulated under U.S. Department of Transportation regulations (29 CFR)

Physical: No information available. Other: Do not empty into drains.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

SECTION 13- DISPOSAL CONSIDERATIONS

Waste Disposal Information:

Observe all federal, state, and local environmental regulations. Contact a licensed



GMSD

professional waste disposal service to dispose of this material.

Contaminated packaging.

Dispose of as unused product. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

SECTION 14 – TRANSPORT INFORMATION

DOT EMERGENCY 24-HR: 1.800.477.2577

U.S. DOT Class: Not Regulated

DOT Shipping Name:

SECTION 15- REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	No	No	No
20592-85-2	Phosphonic acid, [nitrilotris(methylene)]tri-, sodium salt	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -Inventory; CA PROP.65: No
20592-85-2	Phosphonic acid, [nitrilotris(methylene)]tri-, sodium salt	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -Inventory; CA PROP.65: No

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.

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.