

## SAFETY DATA SHEET

### Section 1. Product And Company Identification

**Product Name:** MetriSponge™  
**Product Use:** Dual Enzymatic Detergent.

**Manufacturer:** METREX™ RESEARCH  
1717 W. Collins Ave.  
Orange, CA 92867  
U.S.A.

**Information Phone Number:** 1-800-841-1428 (Customer Service)

**Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):**  
CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

**SDS Date Of Preparation/Revision:** 12/8/14

### Section 2. Hazards Identification

**GHS / HAZCOM 2012 Classification:**

Eye Damage Category 1  
Skin Irritation Category 2  
Respiratory Sensitization Category 1  
Toxic to Reproduction Category 2

Label Elements

**Danger!**



Hazard Phrases

Causes skin irritation.  
Causes serious eye damage.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Suspected of damaging fertility.

Precautionary Phrases:

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wash thoroughly after handling.  
Wear protective gloves, protective clothing, eye protection or face protection.  
Avoid breathing mist, vapors or spray.  
In case of inadequate ventilation wear respiratory protection.



IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

IF INHALED: remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER.

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.

IF exposed or concerned: Get medical attention.

Store locked up.

Dispose of contents and container in accordance with local and national regulations.

### Section 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Water and non-hazardous ingredients	Mixture	30-60%
Propylene glycol	57-55-6	10-30%
Nonionic Surfactants	Proprietary	10-20%
Fragrance Oil	Proprietary	5-10%
Proteinase subtilisin	9014-01-1	0.1-1%
Octamethylcyclotetrasiloxane	3844-45-9	<0.2%

### Section 4. First Aid Measures

**Inhalation:** Move to fresh air if effects occur. Inhalation may produce asthmatic response. Get immediate medical attention if breathing difficulties occur.

**Skin Contact:** Wash with soap and water. Seek medical attention if irritation develops and persists. Remove and launder contaminated clothing.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Seek immediate medical attention.

**Ingestion:** If the victim is alert, have them rinse their mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Do not attempt to give anything by mouth to an unconscious person. Seek medical advice by calling a Poison Center or doctor.

**Most important symptoms and effects, acute and delayed:** Causes severe eye irritation or burns. Permanent damage may occur. Causes skin irritation. Inhalation of mists may cause irritation of the mucous membranes and upper respiratory tract. Inhalation of mists may cause an allergic reaction, particularly in sensitized individuals. Symptoms include trouble breathing and asthma. Asthmatic response may be life-threatening. Possible reproductive hazard. May cause reproductive effects based on animal data.

**Indication of immediate medical attention and special treatment, if needed:** If eye contact occurs, get immediate medical attention. If breathing difficulty occurs, get immediate medical attention.

**Section 5. Fire Fighting Measures**

**Suitable (and Unsuitable) Extinguishing Media:** Use any extinguishing media that is appropriate for the surrounding fire. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** Burning residual after water has evaporated may produce carbon monoxide, carbon dioxide, nitrogen oxides, and hydrocarbons.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

**Section 6: Accidental Release Measures**

**Personal precautions, Protective equipment, and Emergency procedures:** Wear appropriate protective clothing and equipment.

**Environmental Precautions:** Avoid release to the environment. Report spills as required by local and federal regulations.

**Methods and Materials for Containment and Cleaning up:** Collect material with an inert absorbent material and place in appropriate, labeled container for disposal.

**Section 7. Handling and Storage**

**Precautions for Safe Handling:** Prevent contact with eyes. Avoid contact with skin and clothing. Avoid generating and breathing mists. Wear appropriate eye protection and gloves when handling (see Section 8). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**Conditions for Safe Storage, Including any Incompatibilities:** Store at room temperature. Keep containers closed.

**Section 8. Exposure Controls / Personal Protection**

**Exposure Limits**

Chemical	Exposure Limit
Propylene glycol	10 mg/m <sup>3</sup> TWA AIHA WEEL
Nonionic Surfactants	None Established
Fragrance Oil	None Established
Proteinase subtilisin	0.00006 mg/m <sup>3</sup> (as 100% crystalline active pure enzyme) TWA ACGIH Ceiling Limit
Octamethylcyclotetrasiloxane	10 ppm TWA Manufacturer

**Appropriate Engineering Controls:** General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, mechanical ventilation such as local exhaust may be needed to minimize exposure.



**Respiratory Protection:** None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with particulate cartridges is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Hand protection:** Impervious gloves such as butyl rubber or nitrile are recommended.

**Eye Protection:** Safety goggles are recommended for operations where eye contact is possible.

**Skin Protection:** Wear protective clothing as needed to avoid skin contact.

**Hygiene measures:** Suitable eye wash and washing facilities should be available in the work area.

### Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Sponge saturated with Bluish-green liquid.	<b>Odor:</b>	Mint
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	6.5-8.0
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point/Range:</b>	100-105°C / 212-221°F
<b>Flash Point:</b>	Not flammable	<b>Evaporation Rate:</b>	Not available
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	Not applicable
<b>Vapor Pressure:</b>	Same as water	<b>Vapor Density:</b>	Same as water
<b>Relative Density:</b>	1.036	<b>Solubilities:</b>	Complete (water)
<b>Partition Coefficient: (N-Octanol/Water)</b>	Not available	<b>Autoignition Temperature:</b>	Not flammable
<b>Decomposition Temperature:</b>	Not available	<b>Viscosity:</b>	Not available

### Section 10. Stability and Reactivity

**Reactivity:** None known.

**Chemical Stability:** Stable.

**Possibility of Hazardous Reactions:** None known.

**Conditions to avoid:** Avoid excessive heat.

**Incompatible Materials:** Strong oxidizing agents, strong acids and bleach.

**Hazardous decomposition products:** Thermal decomposition will produce carbon monoxide, carbon dioxide, nitrogen oxides, and hydrocarbons.

### Section 11. Toxicological Information

#### Potential Health Effects:

**Inhalation:** May cause irritation of the nose, throat and upper respiratory tract. Inhalation of mists may cause an allergic reaction. Allergic reaction may be seen as an asthmatic response with restricted airways and trouble breathing. Allergic reaction may be life-threatening.



**Skin Contact:** Causes irritation with redness and pain.

**Eye Contact:** Causes irritation with tearing, redness and pain. Permanent damage may occur.

**Ingestion:** Ingestion may cause gastrointestinal disturbances.

**Chronic Hazards:** None currently known.

**Carcinogen:** None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

**Reproductive Toxicity:** Octamethylcyclotetrasiloxane has been found to cause reproductive effects in studies with laboratory animals. In a two generational inhalation studies with rats, a decrease in the number of pups born and litter size was seen. Prolonged estrous cycles and decreased mating and fertility indices were seen at the 700 ppm dose in the second generation.

**Mutagenic Toxicity:** None of the components have been shown to cause mutagenic activity.

**Acute Toxicity Values:** No toxicity data is available for the product. Acute Toxicity Estimate (ATE): 11,256 mg/kg

Propylene Glycol: LD50 Oral Rat 20,000 – 34,000 mg/kg; LD50 Dermal Rabbit >20,000 mg/kg

Nonionic Surfactants: Oral rat LD50 1300 mg/kg; Dermal rabbit LS50 >2000 mg/kg

Fragrance Oil: Oral rat LD50 2426 mg/kg

Proteinase subtilisin: LD50 Oral Rat >2000 mg/kg

Octamethylcyclotetrasiloxane: Oral rat LD50 >4800 mg/kg; Inhalation rat LC50 36 mg/L/4 hr; Dermal rabbit LD50 >2400 mg/kg

## Section 12. Ecological Information

**Toxicity:** No toxicity data available for product.

Propylene Glycol: 96 hr LC50 *Oncorhynchus mykiss* 40613 mg/L; 48 hr EC50 *Ceriodaphnia dubia* 18340 mg/L; 72 hr EC50 *Pseudokirchnerella subcapitata* 24200 mg/L

Nonionic Surfactants: 96 hr EC50 *Lepomis macrochirus* 1-1.8 mg/L; 48 hr EC0 *daphnia magna* 12.2 mg/L

Fragrance Oil: Not data available

Proteinase subtilisin: 96 hr LC50 *Oncorhynchus mykiss* 8.2 mg/L; 48 hr EC50 *daphnia magna* 0.868 mg/L; 72 hr EC50 *Pseudokirchnerella subcapitata* 1.48 mg/L

Octamethylcyclotetrasiloxane: 96 hr LC50 *Brachydanio rerio* >500 mg/kg

**Persistence and degradability:** Propylene glycol is readily biodegradable. Nonionic surfactants are readily biodegradable.

**Bioaccumulative Potential:** Propylene glycol has a BCF of 3.

**Mobility in Soil:** Propylene glycol has a high mobility in soil.

**Other Adverse Effects:** None known



### Section 13. Disposal Considerations

**Solution Disposal:** For unused solution, flush thoroughly with large quantities of water into sewage disposal system in accordance with Federal, State, and local regulations. For used solution, the waste solution must be characterized by the generator and disposed of in accordance with Federal, State, and local regulations.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, discard in trash.

### Section 14. Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated			None
Canada TDG	None	Not Regulated			None
IMDG	None	Not Regulated			None
IATA/ICAO	None	Not Regulated			None

### Section 15. Regulatory Information

#### U.S. Federal Regulations:

**EPA SARA 311/312 Hazard Classification:** Acute Health, Chronic Health

**EPA SARA 313:** This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

**Protection Of Stratospheric Ozone:** This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103:** This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer or reproductive toxicity.

#### Canadian Regulations

**National Pollutant Release Inventory (NPRI):** This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements NPRI: None

**WHMIS Classification:** Class D-2-A

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.



**International Inventories**

**US EPA TSCA Inventory:** All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

**Canadian Environmental Protection Act:** All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

**Australia:** All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

**China:** All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

**European Union:** All the components in this product are listed on the EINECS inventory or exempt.

**Korea:** All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

**New Zealand:** All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

**Philippines:** All of the components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or exempt.

<b>Section 16. Other Information</b>
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NFPA Rating: Fire: 0                      Health: 3                      Instability: 0

**Effective Date:** December 8, 2014

**Supersedes Date:** December 12, 2012

**Revision Summary:** All sections. Converted to GHS format

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