

SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: MetriSponge®
Product Use: Dual Enzymatic Detergent.

Manufacturer: METREX® RESEARCH
28210 Wick Road
Romulus, MI., 48174-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: April 5, 2022

Section 2. Hazards Identification

GHS / HAZCOM 2012 Classification:
Eye Irritant Category 2A
Respiratory Sensitization Category 1

Label Elements:
Danger!



Hazard Phrases

Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Phrases:

Wash thoroughly after handling.
Avoid breathing mist, vapors or spray.
In case of inadequate ventilation wear respiratory protection.
Wear eye protection.
IF INHALED: remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.

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

Section 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Propylene glycol	57-55-6	15-25%
Nonionic Surfactant	Proprietary	10-20%
Proteinase subtilisin	9014-01-1	0.1-<1%

Section 4. First Aid Measures

Inhalation: Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention if breathing is difficult.

Skin Contact: Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

Eye Contact: Immediately flush eyes with large quantities of water for several minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get medical attention if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Keep the victim calm and warm. Get medical attention if you feel unwell.

Most important symptoms and effects, acute and delayed: May cause moderate eye irritation. Inhalation of mists or vapors may cause irritation of the mucous membranes and upper respiratory tract. May cause respiratory sensitization with asthmatic response and difficulty breathing.

Indication of immediate medical attention and special treatment, if needed: If respiratory sensitization or difficulty breathing occur, 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.

Specific Hazards Arising from the Chemical: Under fire conditions, this product 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. Cool fire exposed containers with water.

Section 6: Accidental Release Measures

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

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

Methods and Materials for Containment and Cleaning up: Collect spilled liquid with an inert absorbent material and collect into an appropriate container for disposal.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Wear appropriate eye protection and gloves when handling (see Section 8). Wash hands 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. Keep containers closed when not in use.

Conditions for Safe Storage, Including any Incompatibilities: Store at room temperature away from incompatible materials. Keep containers closed when not in use.

Section 8. Exposure Controls / Personal Protection

Exposure Limits:

Chemical	Exposure Limit
Propylene glycol	10 mg/m ³ TWA AIHA WEEL
Nonionic Surfactant	None Established
Proteinase subtilisin	0.00006 mg/m ³ (as 100% crystalline active pure enzyme) Ceiling Limit ACGIH TLV

Appropriate Engineering Controls: General ventilation should be adequate for normal use. For operations where the exposures are excessive, 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, an approved respirator with particulate cartridges is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Hand protection: Impervious gloves are recommended if needed to avoid prolonged/repeated skin contact.

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

Appearance:	Clear to hazy liquid	Odor:	Slight peppermint
Odor Threshold:	Not available	pH:	6.5-8.5
Melting/Freezing Point:	Not available	Boiling Point/Range:	>100°C (>212°F)
Flash Point:	Not flammable	Evaporation Rate:	Not available
Flammability: (Solid, Gas)	Not applicable	Flammability Limits:	Not applicable
Vapor Pressure:	Same as water	Vapor Density:	Same as water
Relative Density:	>1.015	Solubilities:	Completely soluble in water
Partition Coefficient: (N-Octanol/Water)	Not available	Autoignition Temperature:	Not flammable
Decomposition Temperature:	Not available	Viscosity:	Not available

Section 10. Stability and Reactivity

Reactivity: None known.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid excessive heat.

Incompatible Materials: Strong oxidizing agents, strong acids, strong bases, 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: Inhalation of mists or vapors may cause irritation of the nose, throat and upper respiratory tract. Inhalation may also cause an allergic respiratory reaction (sensitization) with asthma and difficulty breathing.

Skin Contact: May cause skin irritation with prolonged or repeated exposure.

Eye Contact: May cause moderate eye irritation with tearing, redness and pain.

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: This product is not expected to cause reproductive harm.

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

Acute Toxicity Values:

Product ATE: >5,000 mg/kg (oral)

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

Nonionic Surfactant: LD50 Oral Rat >2000 mg/kg, LD50 Dermal rat >2000 mg/kg

Proteinase subtilisin: LD50 Oral Rat 1800 mg/kg

Section 12. Ecological Information

Toxicity:

Propylene Glycol: 96 hr LC50 Oncorhynchus mykiss 40613 mg/L, 48 hr LC50 Ceriodaphnia dubia 18340 mg/L, 72 hr EC50 algae 19300 mg/L

Nonionic Surfactant: 48 hr EC50 Daphnia magna 36.6 mg/L, 72 hr ErC50 Green algae 31.9-97.7 mg/L

Proteinase subtilisin: 96 hr LC50 Oncorhynchus mykiss 14.6 mg/L, 48 hr LC50 Daphnia magna 0.306 mg/L, 72 hr EC50 algae 830 µg/L

This product is expected to be harmful to aquatic life. Avoid releases to the environment.

Persistence and degradability: Propylene glycol and Proteinase subtilisin are readily biodegradable. Nonionic Surfactant is 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

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: Rinse empty container thoroughly with water and discard clean, empty container as general trash or offer for recycling, if available.

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: See OSHA Hazard Classification in Section 2.

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.

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.

California Proposition 65: This product can expose you to chemicals including Acetaldehyde, Ethylene oxide and Propylene oxide, which are known to the State of California to cause cancer, and Ethylene oxide and Ethylene glycol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canadian Regulations

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

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

International Inventories

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.

Section 16. Other Information

NFPA Rating: Fire: 0 Health: 2 Instability: 0

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Supersedes Date: August 24, 2021

Revision Summary: Section 3,11 and 12.

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