SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: **Empower® Foam**
Product Use: Instrument Cleaner

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: August 5, 2021

Section 2. Hazards Identification

GHS / HAZCOM 2012 Classification:
Eye Damage Category 1

Label Elements:

Danger!

Hazard Phrases
Causes serious eye damage

Precautionary Phrases
Wear eye protection.
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.

Other Hazards: None identified

Section 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Water and non-hazardous ingredients	Mixture	85-95%

Component	CAS No.	Amount
Polyethylene glycol mono (nonyl phenyl)ether	127087-87-0	1-5%

Section 4. First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 20 minutes. After the first 5 minutes, remove contact lenses if present and easy to do so, and then continue rinsing. Get immediate medical attention.

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

Inhalation: Move to fresh air if effects occur and seek medical attention if effects persist.

Ingestion: Rinse 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. Get medical attention if symptoms develop.

Most important symptoms and effects, acute and delayed: May cause severe eye irritation or burns. Permanent damage may occur. May cause skin irritation. Inhalation of mists may cause irritation of the mucous membranes and upper respiratory tract.

Indication of immediate medical attention and special treatment, if needed: Immediate medical attention is required for eye contact.

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: Thermal decomposition will produce carbon monoxide, carbon dioxide, nitrogen oxides, ammonia 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.

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. 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.

Section 8. Exposure Controls / Personal Protection

Exposure Limits:

Chemical	Exposure Limit
Water and non-hazardous ingredients	None Established
Polyethylene glycol mono (nonyl phenyl) ether	None Established

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 exposures are excessive, 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 such as butyl rubber or nitrile are recommended if needed to avoid prolonged/repeated skin contact.

Eye Protection: Chemical safety goggles are recommended to avoid eye contact.

Skin Protection: Wear protective clothing if needed to avoid prolonged/ repeated skin contact.

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

Section 9. Physical and Chemical Properties

Appearance:	Clear blue liquid.	**Odor:**	Coastal breeze scent
Odor Threshold:	Not available	**pH:**	6.5-8.6
Melting/Freezing Point:	Not available	**Boiling Point/Range:**	212-221°F (100-105°C)
Flash Point:	Not flammable	**Evaporation Rate:**	Same as water
Flammability: (Solid, Gas)	Not applicable	**Flammability Limits:**	N/A
Vapor Pressure:	Same as water	**Vapor Density:**	Same as water

Relative Density:	1.006	**Solubilities:**	Complete
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.
Possibility of Hazardous Reactions: None known.
Conditions to avoid: Avoid excessive heat.
Incompatible Materials: Strong oxidizing agents and bleach.
Hazardous decomposition products: Thermal decomposition will produce carbon monoxide, carbon dioxide, nitrogen oxides, ammonia and hydrocarbons.

Section 11. Toxicological Information

Potential Health Effects:

Inhalation: May cause irritation of the nose, throat and upper respiratory tract.

Skin Contact: May cause skin irritation with redness and drying of the skin.

Eye Contact: May cause severe eye irritation with tearing, redness and pain. Permanent damage may occur.

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

Chronic Hazards: None currently known.

Germ Cell Mutagenicity: None of the components are mutagenic.

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

Developmental / Reproductive Toxicity: None of the components have been shown to cause reproductive or developmental toxicity.

Acute Toxicity Values:
Product ATE: Oral LD50: 100,000 mg/kg, Dermal LD50: 220,000 mg/kg
Polyethylene glycol mono (branched p-nonyl phenyl) ether: Oral rat LD50 >1600 mg/kg, Dermal rabbit >2000 mg/kg

Section 12. Ecological Information

Toxicity: No toxicity data available for product.
Polyethylene glycol mono (nonyl phenyl) ether: 96 hr LC50 Lepomis macrochirus 1-1.18 mg/L,48 hr

daphnia magna 12.2 mg/L, 96 hr LC50 green algae 12 mg/L

This product is classified as harmful to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Persistence and degradability: Polyethylene glycol mono (branched p-nonyl phenyl) ether is considered inherently biodegradable.

Bioaccumulative Potential: No data available for product.

Mobility in Soil: No data available for product.

Other Adverse Effects: None known

Section 13. Disposal Considerations

Solution Disposal: For unused solution, flush thoroughly with large quantities if 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	None	None
EU ADR/RID	None	Not Regulated	None	None	None
IMDG	None	Not Regulated	None	None	None
IATA/ICAO	None	Not Regulated	None	None	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.

International Inventories:

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.

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.

Section 16. Other Information

Effective Date: August 5, 2021

Supersedes Date: September 12, 2018

Revision Summary: N/A

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