

## SAFETY DATA SHEET

### Section 1. Product And Company Identification

**Product Name:** MetriLube™

**Product Use:** Instrument Lubricant

**Manufacturer:** METREX™ RESEARCH  
28210 Wick Rd  
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:** 12/16/2014

### Section 2. Hazards Identification

**GHS / HAZCOM 2012 Classification:**

Eye Irritation Category 2A  
Aspiration Toxicity Category 1

**Label Elements**

**DANGER!**



Hazard Phrases

Causes serious eye irritation.  
May be fatal if swallowed and enter airways.

Precautionary Phrases

Wash thoroughly after handling.  
Wear eye protection.  
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.  
IF SWALLOWED: Immediately call a POISON CENTER.  
Do NOT induce vomiting.  
Store locked up.  
Dispose of contents and container in accordance with local and national regulations.



Other Hazards: None identified

### Section 3. Composition/Information On Ingredients

Component	CAS No./ EC No.	Amount
Water and non-hazardous ingredients	Mixture	70-90%
Mineral Oil	8042-47-5 232-455-8	10-20%
Propylene Glycol	57-55-6 200-338-0	1-5%
Polyethylene glycol mono(nonyl phenyl) ether	9016-45-9 500-024-6	1.5%
Polyethylene Stearyl Ether	9005-00-9	1%

### Section 4. First Aid Measures

**Inhalation:** Move to fresh air if effects occur. Seek medical attention if symptoms develop and persist.

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

**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 medical attention if irritation develops and persists.

**Ingestion:** Aspiration Hazard. If swallowed, DO NOT induce vomiting. Get medical advice by calling a Poison Control Center or hospital emergency room. If advice is not available, take victim and product container to the nearest emergency treatment center or hospital. Do not attempt to give anything by mouth to an unconscious person.

**Most Important symptoms and effects, both acute and delayed:** Causes eye irritation. May cause mild skin irritation. Aspiration hazard. May enter the lungs when swallowed causing lung damage.

**Indication of any immediate medical attention and special treatment needed:** If swallowed, get immediate medical attention. Aspiration hazard. Harmful or fatal if swallowed.

### Section 5. Firefighting Measures

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

**Special Hazards Arising from the Chemical:** Not flammable or combustible. Product will burn only after the water has evaporated.

**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 spill as required by local and federal regulations.

**Methods and Material for Containment and Cleaning Up:** Stop leak if it is safe to do so and move containers from the spill area. Collect material with an inert absorbent material and place in appropriate, labeled container for disposal.

**Section 7. Handling and Storage**

**Precautions for Safe Handling:** Avoid contact with eyes, skin or clothing. Wear appropriate eye protection when using. 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.

Empty containers retain product residues and may be hazardous. Do not flame cut, drill, weld, etc. on or near empty containers, even empty.

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

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

**Exposure Limits**

Chemical	Exposure Limit
Mineral Oil	US: 5 mg/m <sup>3</sup> ACGIH TLV (Inhalable) 5 mg/m <sup>3</sup> TWA OSHA PEL (as oil mist) UK: 5 mg/m <sup>3</sup> TWA, 10 mg/m <sup>3</sup> STEL (as oil mist) Belgium: 5 mg/m <sup>3</sup> TWA (as oil mist)
Propylene glycol	US: 10 mg/m <sup>3</sup> TWA AIHA WEEL UK: 10 mg/m <sup>3</sup> (particulates), 474 mg/m <sup>3</sup> (total vapor and particulates)TWA
Polyethylene glycol mono(nonyl phenyl) ether	None Established
Polyethylene Stearyl Ether	None Established

**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.



**Personal Protective Measurers**

**Respiratory Protection:** None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with an organic vapor cartridges with a dust/mist prefilter (R or P type) or supplied air respirator 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 neoprene or nitrile are recommended for operations which may result in prolonged or repeated skin contact.

**Eye Protection:** Goggles are recommended if needed to prevent eye contact.

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

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

**Section 9. Physical and Chemical Properties**

<b>Appearance:</b>	Opaque white liquid	<b>Vapor Pressure:</b>	<0.1 mmHg @ 20°C (mineral oil)
<b>Odor:</b>	Odorless	<b>Vapor Density:</b>	>1
<b>Odor Threshold:</b>	Not determined	<b>Relative Density /Specific Gravity:</b>	0.972
<b>pH:</b>	Not determined	<b>Solubility in Water:</b>	Complete
<b>Melting/Freezing Point:</b>	Not determined	<b>Partition Coefficient: (n-octanol/water)</b>	Not determined
<b>Initial Boiling Point/Range:</b>	Not determined	<b>Auto-ignition Temperature:</b>	Not determined
<b>Flash Point:</b>	Not flammable	<b>Decomposition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Viscosity:</b>	Not determined
<b>Flammability: (solid/gas)</b>	Not flammable	<b>Explosive Properties:</b>	None
<b>Flammable/ Explosive Limits:</b>	Not applicable	<b>Oxidizing Properties:</b>	None
<b>Percent Volatile:</b>	>70%		

**Section 10. Stability and Reactivity**

**Reactivity:** Not reactive at ambient temperatures.

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** Not reactive.

**Conditions To Avoid:** Avoid excessive heat.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Thermal decomposition will produce carbon monoxide, carbon dioxide, and hydrocarbons.

## Section 11. Toxicological Information

### Potential Health Effects:

**Inhalation:** Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract.

**Skin Contact:** May cause skin irritation.

**Eye Contact:** Causes irritation with tearing, redness and pain.

**Ingestion:** Ingestion may cause gastrointestinal disturbances. Aspiration hazard. May enter the lungs when swallowed causing lung damage.

**Mutagenicity:** None of the components have shown mutagenic activity in animal studies.

**Carcinogenicity:** 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 effects.

### Acute Toxicity Values: Estimated Acute Toxicity (ATE)

Mineral Oil: Oral Rat LD50 >5000 mg/kg, Dermal Rabbit LD50 >2000 mg/kg; Inhalation Rat LC50 >5 mg/L

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

Polyethylene glycol mono(nonyl phenyl) ether: Oral Rat LD50 1310 mg/kg, LD50 Dermal Rabbit 2000 mg/kg

Polyethylene Stearyl Ether: LD50 Oral Rat >2100 mg/kg

## Section 12. Ecological Information

This product may be hazardous to the aquatic environment.

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

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

Polyethylene glycol mono(nonyl phenyl) ether: 96 hr *Lepomis macrochirus* (Bluegill) LC50 1.3 mg/L; 48 hr EC 50 *daphnia magna* 12.2 mg/L; 96 hr LC50 green algae 12 mg/L

Polyethylene glycol mono(nonyl phenyl) ether: 96 hr LC50 *Lepomis macrochirus* 1-1.8 mg/L; 48 hr EC50 *daphnia magna* 12.2 mg/kg

**Persistence and Degradability:** Propylene glycol and polyethylene glycol mono(nonyl phenyl) ether are readily biodegradable. Trisodium Citrate Dihydrate is inherently biodegradable.

**Bioaccumulative Potential:** Propylene glycol has a BCF of <1. Polyethylene glycol mono(nonyl phenyl) ether as a BCF <1.4.

**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 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	Transport Hazard Class(es)	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

**Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code:** Not applicable – product is transported only in packaged form.

**Special Precautions for User:** None identified

**Section 15. Regulatory Information**

**US Regulations**

**EPA SARA 311/312 Hazard Classification:** Acute 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 Prop 65:** This product may contain a chemical known to the State of California to cause cancer or birth defects or other reproductive harm.

**International Inventories**

**US EPA TSCA Inventory:** All of the components in 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.

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

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

**Japan:** All of the components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) inventory or exempt.

**Korea:** All of the components in this product are listed on the Korean Existing Chemicals List (KECL) 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>16. Other Information</b>
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NFPA Rating: Fire: 0            Health: 2            Instability: 0

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, METREX™ RESEARCH makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.

**Effective Date:** December 16, 2014

**Supersedes Date:** October 1, 2012

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