

# Metrex Research Corporation

## MATERIAL SAFETY DATA SHEET

Effective Date: March 15, 2006

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### PRODUCT INFORMATION

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**TRADE NAME:**

MetriLube

**PRODUCT USE:**

Lubricant

**MANUFACTURER: Metrex Research Corporation**

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**EMERGENCY PHONE:**

(USA) – Chemtrec: 1 (800) 424-9300 (24 hours)

(Canada) – Canutec: 1 (613) 996-6666 (24 hours)

**MOLECULAR WEIGHT:** Not applicable, mixture

**WHMIS CLASS:** D2B

**CHEMICAL NAME:** Mixture

**CHEMICAL FAMILY:** Not applicable, mixture

**CHEMICAL FORMULA:** Not applicable, mixture

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### HAZARDOUS INGREDIENTS

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	% BY WT.	CAS NO.	ACUTE LETHALITY
Oleic acid	1.0 to 10.0	112-80-1	LD <sub>50</sub> (oral, rat) = 74g/kg

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### PHYSICAL DATA

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**PHYSICAL STATE:** liquid

**MELTING POINT:** not applicable

**VAPOUR DENSITY(air = 1):** not determined

**SPECIFIC GRAVITY:** not determined

**EVAPORATION RATE: (n-Butyl acetate = 1):** not determined

**ODOUR THRESHOLD:** not available

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** not available

**APPEARANCE AND ODOUR:** milky white with an oleic odour.

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### FIRE OR EXPLOSION HAZARD

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**FLASH POINT:** non-combustible

**LOWER EXPLOSIVE LIMIT:** not applicable

**UPPER EXPLOSIVE LIMIT:** not applicable

**METHOD:** not applicable

**AUTO-IGNITION TEMPERATURE:** not applicable

**MEANS OF EXTINCTION:** carbon dioxide, dry chemical and water spray

**SPECIAL FIRE FIGHTING PROCEDURES:** Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus, with full-face mask and full protective equipment.

**HAZARDOUS COMBUSTION PRODUCTS:** oxides of nitrogen and carbon, ammonia, low molecular weight volatile organic compounds.

**EXPLOSION DATA:** Combustion may produce noxious and irritating gases which will require a fresh air source in fire fighting.

**SENSITIVITY to MECHANICAL IMPACT:** none known

**SENSITIVITY to STATIC DISCHARGE:** none known

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### REACTIVITY DATA

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**STABILITY AT ROOM TEMPERATURE:** This product is a stable solution within a closed container under normal conditions of storage and use.

**INCOMPATIBLE MATERIALS:** Oxidizing materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** carbon dioxide, carbon monoxide, nitrogen oxides ammonia.

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### TOXICOLOGICAL PROPERTIES

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#### OCCUPATIONAL EXPOSURE LIMITS:

	ACGIH TLV-TWA**	TWAEV*
Oleic acid	Not available	Not available

**NOTE:** \* Time-weighted average exposure value limits as published in Ont. Reg. 833/90 (as amended by Ont. Reg. 513/92) REGULATION RESPECTING CONTROL OF EXPOSURE TO BIOLOGICAL OR CHEMICAL AGENTS.

\*\* Threshold Limit Value of American Conference of Governmental Industrial Hygienists is concentration that can not be exceeded during an eight-hour exposure.

# WEG - Working Exposure Guideline

**EFFECTS OF ACUTE EXPOSURE TO PRODUCT (Routes of entry):**

**INHALATION:** Low to mild irritant. May cause an allergic type response in susceptible individuals.

**EYE CONTACT:** Mild to moderate irritation.

**SKIN CONTACT/ABSORPTION:** Mild irritant. Skin absorption is not suspected.

**INGESTION:** Ingestion may cause central nervous system effects.

**EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:** Repeated skin contact may cause dermatitis, skin sensitization and allergic reaction in hypersensitive individuals.

**SENSITIZATION TO PRODUCT:** Possible skin and respiratory sensitization.

**CARCINOGENICITY: TERATOGENICITY: REPRODUCTIVE TOXICITY:** No reported evidence of carcinogenicity or reproductive effects.

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**PREVENTIVE MEASURES**

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**HANDLING PROCEDURES and EQUIPMENT:** Avoid personal contact. Prevent skin and eye contact. Do not breathe fumes, vapours or spray mist released from this product. Do not use this product at elevated temperatures. Washing facilities should be readily available when using this product. Wash thoroughly after handling and before eating, drinking or smoking. Food should not be used in area where this product is stored or handled.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES:** Wear safety glasses or chemical safety goggles.

**SKIN:** Wear impervious material gloves, such as butyl rubber or neoprene.

**RESPIRATORY:** Depending on the airborne concentration, a NIOSH/MSHA approved respirator may be worn for concentrations up to 10 times the TLV.

**ENGINEERING CONTROLS:** General mechanical and local exhaust ventilation to maintain airborne concentrations below occupational exposure limits.

**STORAGE REQUIREMENTS:** Keep containers tightly closed. Store in a cool, dry well ventilated area, away from acids, alkalines and oxidizers. Do not store with incompatible materials. Protect containers from damage.

**SPILL or LEAK PROCEDURE:** Stop discharge and contain spill. Keep others at a safe distance. Avoid all personal contact. Wear protective equipment listed above. Recover and reuse spilled material. Absorb remaining product with an inert absorbent. Dumping into sewer, onto the ground, or into any body of water may be prohibited by local sewer use by-laws. Wash residue from spill with water and flush to a sewer serviced by a wastewater treatment facility. Ventilate area to disperse residual vapour.

**WASTE DISPOSAL:** Wastes must be disposed of according to local, provincial or federal regulations.

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## FIRST AID

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**EYE:** Immediately flush eyes with running water for a minimum of 20 minutes while forcing eyelids open during flush. Take care not to rinse contaminated water into the non-affected eye. Do not attempt to neutralize or use oils or ointments. Always seek medical attention for accidents involving the eyes.

**SKIN:** Wash affected areas with soap and running water for a minimum of 15 minutes while removing clothing. Launder contaminated clothing before reuse. If dry skin results, apply a moisturizing cream or lotion. Get medical attention if irritation persists.

**INHALATION:** Take proper precautions to ensure your own safety before attempting to rescue. Remove source of contamination or move victim to fresh air. Give artificial respiration if not breathing, and get immediate medical attention.

**INGESTION:** Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. If conscious, induce vomiting and give 2 or 3 glasses of water. If vomiting does occur, give more fluids. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. IMMEDIATELY contact local Poison Control Centre to obtain medical attention.

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## PREPARATION INFORMATION

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**PREPARED BY:** SYBRON DENTAL SPECIALTIES, INC. (714) 516-7400

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