

Metrex Research Corporation
MATERIAL SAFETY DATA SHEET

Effective Date: March 15, 2006

PRODUCT INFORMATION

TRADE NAME:

MetriClean2

PRODUCT USE:

Cleaner and Lubricant

MANUFACTURER: Metrex Research Corporation

Metrex Research Corporation
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USA

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SUPPLIER: Metrex Research

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Canada

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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, E

CHEMICAL NAME: Mixture

CHEMICAL FAMILY: Not applicable, mixture

CHEMICAL FORMULA: Not applicable, mixture

HAZARDOUS INGREDIENTS

	% BY WT.	CAS NO.	ACUTE LETHALITY
Potassium hydroxide	2.0 – 4.0	1310-58-3	LD ₅₀ (oral, rat) = 273 mg/kg

PHYSICAL DATA

PHYSICAL STATE: Liquid

BOILING POINT: 195 °F

MELTING POINT: not applicable

VAPOUR DENSITY (air = 1): Heavier than water

SPECIFIC GRAVITY: 1.048

% VOLATILE BY VOLUME: not available

pH: 13.0 – 14.0

ODOUR THRESHOLD: not available

EVAPORATION RATE: (n-Butyl acetate = 1): Slower than ether

VAPOUR PRESSURE (mm Hg @ 20 °C): not determined

COEFFICIENT OF WATER/OIL DISTRIBUTION: not available

APPEARANCE AND ODOUR: Clear blue-green solution with fresh, clean odour.

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FIRE OR EXPLOSION HAZARD

FLASH POINT: non-flammable

LOWER EXPLOSIVE LIMIT: not applicable

UPPER EXPLOSIVE LIMIT: not applicable

METHOD: not applicable

AUTO-IGNITION TEMPERATURE: not applicable

MEANS OF EXTINCTION: not applicable

SPECIAL FIRE FIGHTING PROCEDURES: not applicable

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

EXPLOSION DATA: not applicable

SENSITIVITY to MECHANICAL IMPACT: none known

SENSITIVITY to STATIC DISCHARGE: none known

REACTIVITY DATA

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. Avoid contact with acids and alkalines.

CONDITIONS of REACTIVITY: Avoid temperatures above 200 °C. Do not allow significant evaporation.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen, ammonia, low molecular weight volatile organic compounds.

TOXICOLOGICAL PROPERTIES

OCCUPATIONAL EXPOSURE LIMITS:

	ACGIH TLV-TWA**	TWAEV*
Potassium hydroxide	2 mg/m ³	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: Severe irritation. May cause eye damage on contact.

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

INGESTION: Ingestion may cause irritation to the throat, mouth and gastrointestinal tract.

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.

PREVENTIVE MEASURES

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. If ventilation is insufficient, wear suitable respiratory protection.

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 dispel residual vapour.

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

FIRST AID

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. 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. 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, give 2 or 3 glasses of water. Aspiration of liquid into lungs during ingestion or vomiting may cause severe pulmonary injury or death. 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.

PREPARATION INFORMATION

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

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