

Metrex Research
MATERIAL SAFETY DATA SHEET

Effective Date: August 2009

PRODUCT INFORMATION

TRADE NAME:

CaviCide

PRODUCT USE:

Disinfectant Solution

MANUFACTURER: Metrex Research

Metrex Research
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USA

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EMERGENCY PHONE:

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

MOLECULAR WEIGHT: Not applicable, mixture

DIN: 02161656

CHEMICAL NAME: Mixture

CHEMICAL FAMILY: Not Applicable, mixture

CHEMICAL FORMULA: Not Applicable, mixture

HAZARDOUS INGREDIENTS

	% BY WT.	CAS NO.	LD ₅₀ of Ingredient	LC ₅₀ of Ingredient
Isopropanol	10.0 to 20.0	67-63-0	5045 mg/kg (oral rat)	N.Av
Butyl Cellosolve	1.0 to 5.0	111-76-2	470 mg/kg (oral rat)	925 ppm (rat) (4 hr exposure)
Hyamine 1622	0.1 to 1.0	121-54-0	420 mg/kg (oral rat)	N.Av

PHYSICAL DATA

PHYSICAL STATE: Liquid

BOILING POINT: 88 °C

MELTING POINT: -10 °C

VAPOUR DENSITY: Same as water

SPECIFIC GRAVITY: 0.970**% VOLATILE BY VOLUME:** Not Available**pH:** 8.5 - 12.49**ODOUR THRESHOLD:** Not Available**VAPOUR PRESSURE (mm Hg @ 20 °C):** Similar to water**EVAPORATION RATE:** Not Available**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not Available**APPEARANCE AND ODOUR:** Clear to amber liquid with minty odor in a towelette**FIRE OR EXPLOSION HAZARD****FLASH POINT:** 28 °C (83 °F)**LOWER EXPLOSIVE LIMIT:** Not Applicable**UPPER EXPLOSIVE LIMIT:** Not Applicable**METHOD:** Closed cup**AUTO-IGNITION TEMPERATURE:** Not Applicable**MEANS OF EXTINCTION:** Carbon dioxide, dry chemical, foam**SPECIAL FIRE FIGHTING PROCEDURES:** Not Applicable**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of nitrogen and carbon, low molecular weight volatile organic compounds.**EXPLOSION DATA:** Not Applicable**SENSITIVITY to MECHANICAL IMPACT:** Not Available**SENSITIVITY to STATIC DISCHARGE:** Not Available**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:** Avoid contact with acids.**CONDITIONS of REACTIVITY:** Avoid temperatures above 50 °C; do not allow significant evaporation.**HAZARDOUS DECOMPOSITION PRODUCTS:** oxides of carbon**TOXICOLOGICAL PROPERTIES****OCCUPATIONAL EXPOSURE LIMITS:**

	ACGIH TLV-TWA**	TWA-EV*	TLV-STE^V
Isopropanol	200 ppm	200 ppm	400 ppm
Butyl cellosolve	20 ppm	20 ppm	N.a ^V
Hyamine 1622	Not Established	Not Established	Not Established

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 cannot be exceeded during an eight-hour exposure.

TLV Comments:

NOTE: In many jurisdictions, exposure limits are similar to the ACGIH TLVs. Since the manner in which exposure limits are established, interpreted, and implemented can vary, obtain detailed information from the appropriate government agency in each jurisdiction.

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

INHALATION: Low to mild irritant. Inhalation of vapours at moderate concentrations may cause nose, throat and respiratory tract irritation, nausea and headaches. Inhalation of vapours at extremely high concentrations (above exposure guidelines) may result in CNS depression.

EYE CONTACT: Vapours are irritating to the eyes and may cause reversible eye damage.

SKIN CONTACT/ABSORPTION: Not considered an irritant.

INGESTION: May be harmful if swallowed.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Repeated skin contact may cause dermatitis.

SENSITIZATION TO PRODUCT: No evidence of skin or respiratory sensitization.

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

PREVENTIVE MEASURES

HANDLING PROCEDURES and EQUIPMENT: Avoid eye contact. Do not breathe fumes, vapours or spray mist released from this product. Do not ingest. 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. Avoid contamination of food.

PERSONAL PROTECTIVE EQUIPMENT

EYES: Not required if used as directed.

SKIN: Not required if used as directed.

RESPIRATORY: Use in a well-ventilated area.

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. Ventilate area. Keep others at a safe distance. Wear protective equipment listed above. 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 dispose of according to local, provincial or federal regulations.

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

SPECIAL SHIPPING INFORMATION:DOT:

This product is not regulated by DOT for ground transportation under the aqueous alcohol exemption per 49 CFR 173.150 (E)(1)(2).

IATA, IMO:

Proper Shipping Name:	Alcohol n.o.s. (Isopropanol, aqueous solution)
Hazard Class:	3
Identification Number:	1987
Packaging Group:	III
Label:	Flammable Liquid

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 (714) 516-7400

PREPARED DATE: August 2009

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