

# ***ELEC 500A***

## **MODERN INDUSTRIAL SOLVENT**

AN EXCELLENT SOLVENT FOR CLEANING, ELEC 500A CAN BE USED AS A DIELECTRIC COOLANT OVER A TEMPERATURE RANGE OF -30 TO +119 DEGREE F, ELEC 500A IS AN ULTRA PURE, CHEMICALLY INERT SOLVENT FOR USE IN CRITICAL CLEANING OPERATIONS IN ELECTRONICS AND AEROSPACE INDUSTRIES AND OTHER INDUSTRIES EMPLOYING MODERN, COMPLEX TECHNOLOGY.

Envirosafe Elec 500A is a relatively hazardous solvent, and is available in electronic grade. The advantages of Elec 500A are as follows:

- \*For cleaning electrical and mechanical equipment
- \*Excellent for use in a vapor degreaser.
- \*Simple cleaning techniques, including ultrasonic.
- \*Low cleaning costs.
- \*High reliability
- \*Excellent compatibility
- \*Low surface tension
- \*High density
- \*Excellent penetration
- \*High purity
- \*Low toxicity
- \*Nonflammable
- \*Meets Military Specifications
- \*Electronic grade meets military and NASA Specifications.

## **ELEC 500A MEETS THE FOLLOWING GOVERNMENTAL SPECIFICATIONS:**

STANDARD GRADE: MILITARY SPECIFICATIONS MIL-C-81302B, TYPE II

ELECTRONIC GRADE: MILITARY SPECIFICATION MIL-C-81302B, TYPE INASA  
SPECIFICATION MSFC 237B

**Elec 500A has many applications in manufacturing, formulating, cleaning, etc.**

**Used for cleaning heavy metal parts (degreasing, especially nuclear reactors), delicate precision metal parts, printed circuit boards, integrated circuits, gyroscopes, guidance systems, aerospace and missile hardware.**

# TECHNICAL DATA SHEET

In the manufacture, or preparation of:

-Automatic temperature control valves  
-Aerosol paints  
-Aerosol electronic contact cleaners  
-Water repellents

-Silicone dispersed coating material  
-Bubble free styrene butadiene latex finishes  
-Specialty solvent formulations  
-Pharmaceutical (processing)

## ENVIROSAFE CHEMICALS CANADA MATERIAL SAFETY DATA SHEET

### SECTION 1-PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ELEC 500A AEROSOL      PRODUCT IDENTIFICATION      NUMBER (PIN) E500  
PRODUCT USE: Solvent based pressurized blend contact cleaner carbon dioxide blend in aerosol.  
MANUFACTURER'S NAME: ENVIROSAFE CHEMICALS CANADA  
ADDRESS: PO Box 1792 – 10011 Thatcher Avenue  
CITY: North Battleford      PROVINCE: SK      POSTAL CODE: S9A 3W8      TEL: 306-446-0505

### SECTION 2-HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC OF INGREDIENT (SPECIFY SPECIES)	TLV
(ACGIH) Trichloroethylene	30%	000079-01-6	10,000 mg/kg (rabbit)	12,500ppm (rat)	
1,2-butylene oxide Stabilizers	05%	000106-88-7			

### SECTION 3-PHYSICAL DATA

PHYSICAL STATE: Liquid      ODOUR AND APPEARANCE: colourless      ODOUR THRESHOLD (PPM): Not available  
Liquid (solvent base)  
VAPOUR PRESSURE: 60 mmhg @ 20°C (mm Hg)      VAPOUR DENSITY: 4.53 AIR=1      EVAPORATION RATE:>1  
BOILING POINT (°C) 189°F (87°C)      FREEZING POINT (°C)<0°      pH: Not available  
SPECIFIC GRAVITY: 1.46 @ 25/25C      COEFF. WATER/OIL DIST.: Not available

### SECTION 4-FIRE AND EXPLOSION DATA

FLAMMABILITY: No      IF YES UNDER WHICH CONDITION? Non-flammable  
MEANS OF EXTINCTION: as appropriate for surrounding fire.      FLASHPOINT (°C) AND METHOD: °F None  
UPPER FLAMMABLE LIMIT (% BY VOLUME): °C 15.0      LOWER FLAMMABLE LIMIT (% BY VOLUME): °C 7.5  
AUTOIGNITION TEMPERATURE (°C): not available  
HAZARDOUS COMBUSTION PRODUCTS: Possible phosgene over 500°C. Chlorine gas, hydrochloric acid, hydrocarbon fumes and smoke. Carbon monoxide, where combustion is complete.  
EXPLOSION DATA SENSITIVITY TO IMPACT: Contents under  
SENSITIVITY TO STATIC DISCHARGE: Not available  
Pressure. Exposure to temp. Above 50°C. May cause the container to explode.

### SECTION 5 REACTIVITY DATA

CHEMICAL STABILITY: yes under normal condition  
IF NO, UNDER WHICH CONDITION? Strong oxidizing agents.  
INCOMPATIBILITY WITH OTHER SUBSTANCES: Do not mix with strong acids, oxidants, etc.  
REACTIVITY, AND UNDER WHAT CONDITIONS: Not available  
HAZARDOUS DECOMPOSITION PRODUCTS: Strong oxidizing agents. Hydrogen Chloride and traces of chlorine and Phosgene.

PREPARED BY ENVIROSAFE TECHNICAL DEPT PHONE NUMBER: 306-446-0505 DATE October 04, 2007

ENVIROSAFE CHEMICALS CANADA

PO Box 1792 -10011 Thatcher Avenue North Battleford SK S9A 3W8

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# TECHNICAL DATA SHEET

**ENVIROSAFE**  
**pg2**

**CHEMICALS**

**CANADA**

**PRODUCT IDENTIFICATION: ELEC 500A AEROSOL**

## SECTION 6-TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY:**

**SKIN CONTACT: X SKIN ABSORPTION: EYE CONTACT:X INHALATION:X INGESTION: x**

**EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Breathing high concentrations of vapour may cause light-headedness giddiness or shortness of breath.**

**EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: No chronic toxicity data available**

**EXPOSURE LIMITS: LD50 (rat is 4920 mg/kg)**

**SENSITIZATION OF PRODUCT: Not known**

**CARCINOGENICITY: not known**

**TERATOGENICITY: Not available**

**MUTAGENICITY: Not available**

**REPRODUCTIVE TOXICITY: None known**

**SYNERGISTIC PRODUCTS: None known**

## SECTION 7-PREVENTIVE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT: Safety glasses recommended. Use a breathing device if TLV is exceeded or when used indoors on a continuous basis**

**GLOVES: not normally required RESPIRATOR: Use approved NIOSH or MSHA breathing EYE: safety glasses Device in confined areas.**

**FOOTWEAR: not normally required CLOTHING: not normally required OTHER: not applicable**

**ENGINEERING CONTROL (SPECIFY, EG. VENTILATION ENCLOSED PROCESS): Provide mechanical ventilation of confined spaces for continuous use or if TLV is exceeded.**

**LEAK AND SPILL PRODUCE: Ventilate area remove from open flames. Small spills may be wiped, large spills collected for disposal. Absorbent material may be used to soak up spills.**

**WASTE DISPOSAL: Use standard waste disposal procedure in accordance with Federal, Provincial and Local Regulations. Do not puncture or incinerate can.**

**HANDLING PROCEDURES AND EQUIPMENT: Keep away from heat, sparks and open flames. Do not place in hot water.**

**STORAGE REQUIREMENTS: Store in cool dry well ventilated area below 50°.**

**SPECIAL SHIPPING INFORMATION: Label as "Consumer Commodity"**

## SECTION 8-FIRST AID MEASURES

**EYE: Flush immediately with plenty of water for at least 15 minutes and get medical attention.**

**SKIN: Wash thoroughly with soap and water; if irritation persists call a physician.**

**INHALATION: Remove to fresh air. Apply artificial respiration if necessary. Call a physician.**

**INGESTION: If swallowed, do not induce vomiting get medical attention. Rinse mouth with water. Do not give anything by mouth if victim is unconscious call a physician.**

## SECTION 9-PREPARATION DATE OF MSDS

**PREPARED BY: ENVIROSAFE TECHNICAL DEPT. PHONE NUMBER: 306-446-0505**

WHILE THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE LISTED, ENVIROSAFE CHEMICALS CANADA MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE HEREON.

**PREPARED BY ENVIROSAFE TECHNICAL DEPT PHONE NUMBER: 306-446-0505 DATE October 04, 2007**

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