

## MATERIAL SAFETY DATA SHEET

### SECTION I - MATERIAL IDENTIFICATION AND USE

Part Number(s): 7500F

**Material Name Identifier:**

**7500 Ink**

Supplier Name: Sterling Marking Products Inc.

Street Address: 349 Ridout St. N., P.O. Box 5055

City and Province: London, Ontario Postal Code: N6A 5S4

Telephone Numbers: (519) 434-5785

Emergency Telephone Number: Poison Control Centre \_\_\_\_\_

Material Use: Ink

**WHMIS Classification:**

Class D, Division 1B - Acutely Toxic Material

Class D, Division 2A - Very Chronically Toxic (Reproductive)

Class D, Division 2B - Skin/Eye Irritant

Class B, Division 2 - Flammable Liquid

### SECTION II - HAZARDOUS INGREDIENTS

Component	CAS Registry	Toxicology	Concentration % (w/w)
Ethanol glycol monobutyl ether	<b>111-73-2</b>	L <sub>D</sub> 50: 530 – 1480 mg/kg (oral, rat) L <sub>C</sub> 50: 225 ppm, 1 hr (inhalation, rat)	15-40
Diethylene Glycol	<b>111-46-6</b>	L <sub>D</sub> 50: 14.8 g/kg (oral, rat) L <sub>C</sub> 50: 130 mg/m <sup>3</sup> 2hrs (inhalation, rat)	10-40

### SECTION III - PHYSICAL DATA

Physical State: Liquid

Specific Gravity: 1.04

Colour: Various

Viscosity: As water

pH: 2.8-7.5

% Volatile (by volume): 96

Boiling Point (°C): 100

Odour: Almost none

Solubility in Water (20 °C): Miscible

Flash Point (°C): 94

### SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Flammable under sources of ignition

Flash Point (°C TCC): 94

LEL (% vol) lowest value of components: Not available

UEL (% vol) highest value of components: Not available

Hazardous Combustion Products: Oxides of carbon, smoke

Means of Extinction: Dry chemical, foam, carbon dioxide

### SECTION V - REACTIVITY DATA

Stability: Stable

Incompatibility: Oxidizing agents, caustics, acids

Hazardous Decomposition Products: Oxides of carbon, smoke

**SECTION VI - TOXICOLOGICAL PROPERTIES**

Route of Entry: Eye, Skin, Skin Absorption, Inhalation, Ingestion

Effects of Acute Exposure:

**Eye:** Severe eye irritant

**Skin:** Prolonged contact may cause irritation and dermatitis

**Inhalation:** None expected at ambient (normal, outdoor) temperatures. May cause pain or discomfort in the abdomen.

**Ingestion:** Harmful if swallowed. May cause pain or discomfort in the abdomen, pain in the lumbar region. Nausea, vomiting, dizziness, drowsiness, decreased urine production, malaise, and loss of consciousness. Severe kidney damage may occur, which can be fatal if not promptly and adequately treated. Liver injury may also occur.

Effects of Chronic Exposure:

Prolonged exposure to diethylene glycol may cause injury to lungs, liver and kidneys. Also, diethylene glycol vapours can cause headache, dizziness, nausea and central nervous system depression.

This product contains: 2-Butoxy ethanol – Animal studies have shown that this ingredient is a Hemolytic agent characterized by a reduction in blood cells and blood in urine. 2-Butoxy ethanol has been found to produce toxic effects in pregnant rats at about 200 ppm with no apparent increase in congenital defects among the young.

**Irritancy:** Hazardous by WHMIS criteria

**Respiratory Tract Sensitization:** Insufficient data available

**Carcinogenicity:** None known

**Synergistic Materials:** None known

**Reproductive Effects:** None known

**Teratogenicity:** None known

**Mutagenicity:** None known

**SECTION VII - PREVENTATIVE MEASURES**

**Gloves:** Latex or rubber gloves if skin contact is likely.

**Eye Protection:** Wear safety glasses meeting the specification of ANSI Z87.1 where no contact with the eye is anticipated.

Chemical safety goggles meeting the specifications of ANSI Z87.1 should be worn whenever there is a possibility of splashing or other contact with the eyes.

**Respiratory Protection:** Proper selection of respiratory protection depends upon many factors, including duration and level of exposure and conditions of use. In general, exposure to organic chemicals, such as those contained in this product, may not require the use of respiratory protection, if used in a well-ventilated area. In areas of restricted ventilation, a NIOSH approved organic vapour respirator may be required. Under certain conditions, such as spraying, a mechanical pre-filter may also be required. In confined areas, or in high exposure situations, a NIOSH/MSHA approved air-supplied respirator may be required. If the TLV's listed in Section II are exceeded, use a properly fitted NIOSH/MSHA approved respirator with an appropriate protection factor.

**Other Protective Equipment:** Safety shower and eye wash fountain in the immediate work area.

**Engineering Controls:** Use general dilution and local exhaust in sufficient volume, and pattern to keep concentrations of hazardous ingredients listed in Section II below the lowest exposure limit stated. Fumes emitted while baking this product must be properly vented.

**Leak and Spill Procedure:** Before attempting clean-up, refer to hazard data given above. Keep spectators away. Eliminate all ignition sources. Dike and contain small spills with an inert material and placed in suitable, covered labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

**Waste Disposal:** Review federal, provincial and local government requirements prior to disposal.

**Storage Requirements:** Store in a tightly closed container. Store away from incompatible materials. Store in a cool, dry, well-ventilated area. Ensure storage area has adequate ventilation, and no source of open flame or sparks. Limit quantity of the material in storage. Ensure all bottles are properly labeled.

**SECTION VIII - FIRST AID**

**Eye:** Flush eyes with water for 15 minutes, Seek medical attention if necessary.

**Skin:** Wash with soap and water.

**Inhalation:** Remove person to fresh air.

**Ingestion:** Drink 2 or 3 glasses of water. Contact a physician immediately.

## SECTION IX - PREPARATION AND ADDITIONAL INFORMATION

**TDG Shipping Name:** Not Regulated

**Product Identification Number:**

**Class:** PG:

**Prepared by:** Sterling Marking Products Inc.  
Quality Planning and Engineering Department  
349 Ridout St., N.  
London, Ontario N6A 5S4

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Revision Date: February 27, 2009

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Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that user of this material has been fully trained according to the mandatory requirements of WHMIS. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal, Quebec (514-873-3990).