

Part Number(s): 507C, 507CB, 507CBL, 507CG, 507CR, 507CW, 7005B

**MATERIAL SAFETY DATA SHEET**

**SECTION I - MATERIAL IDENTIFICATION AND USE**

**Material Name Identifier:**

**7005 Ink, 7005C Ink, Ink-Type 507C**

Supplier Name: Sterling Marking Products Inc.  
 Street Address: 349 Ridout St. N.,  
 City and Province: London, Ontario  
 Postal Code: N6A 2N8

Telephone Numbers: (519) 434-5785, (800) 265-5957  
 Fax Number: (519) 434-9516, (800) 667-6600  
 Webpage: <http://www.sterling.ca>  
 E-Mail: sales@sterling.ca

**Emergency Telephone Number: CANUTEC (613) 996-6666; Cellular \*666**

Material Use: Ink

**TDG Shipping Information:**

**PRINTING INK, flammable UN1210 Class: 3 PG: III**

**WHMIS Classification:**

Class B3 - Combustible Liquids  
 Class D, Division 2B - Skin/Eye Irritant

**IATA Shipping (Air):**

PRINTING INK, flammable  
**Packaging Instruction for Limited Quantity: Y344**  
**Maximum Net Quantity** (per outer package): 10L  
 Refer to Pkg. Inst. No. for inner packaging type and maximum quantity per inner package. DGR – 54<sup>th</sup> edition

**SECTION II - HAZARDOUS INGREDIENTS**

Component	CAS Registry	Toxicology	Concentration % (w/w)
Ethylene glycol monobutyl ether	111-76-2	TLV: 25ppm L <sub>D</sub> 50: 470mg/kg (oral, rat) L <sub>C</sub> 50: 2.9g/m <sup>3</sup> (inhalation, rat)	15-40
Ethanol	64-17-5	TLV: 1000ppm L <sub>D</sub> 50: 3945mg/kg (oral, rat) L <sub>C</sub> 50: 20,000ppm/10H (inhalation, rat)	15-40
Methyl alcohol	67-56-1	TLV: 200ppm L <sub>D</sub> 50: 5628mg/kg (oral, rat) L <sub>C</sub> 50: 64,000ppm (inhalation, rat)	1-5

**SECTION III - PHYSICAL DATA**

Physical State: Liquid  
 Specific Gravity: > 1.0  
 Colour: Various  
 Viscosity: As water  
 Clarity: Opaque

% Volatile: 60  
 Boiling Point (°C): > 100  
 Odour: Mild odour of wood alcohol  
 Solubility in Water (20 °C): Complete  
 Flash Point (°C): 48

**SECTION IV - FIRE AND EXPLOSION DATA**

Flammability: Combustible	Flash Point (°C TCC): 48
LEL (% vol) lowest value of components: 36.0	
UEL (% vol) highest value of components: 2.0	
Hazardous Combustion Products: None reported	
Means of Extinction: Carbon dioxide, dry chemical, alcohol foam	

## SECTION V - REACTIVITY DATA

Stability: Stable  
Incompatibility: Oxidizing agents  
Hazardous Decomposition Products: None reported

## SECTION VI - TOXICOLOGICAL PROPERTIES

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

### Effects of Acute Exposure:

**Eye:** May cause conjunctivitis, irritation, and inflammation of mucous membranes may occur. See "Other Health Effects".

**Skin:** Direct contact with vapour, mist or liquid may cause defatting, drying and cracking of the skin.

**Skin Absorption:** May be absorbed through the skin, causing central nervous system (CNS) depression and blindness. See "Other Health Effects".

**Inhalation:** May cause irritation of the eyes, nose and throat, and respiratory tract. May cause blindness and CNS depression. See "Other Health Effects".

**Ingestion:** May cause irritation of the mucous membranes of mouth and throat. May cause CNS depression and blindness. Severe overexposure may cause metabolic acidosis. Persons on Disulfiram (Antabuse R) therapy should be aware that the ethyl alcohol in this product is hazardous to them, just as alcohol from any source. Disulfiram reactions may follow ingestion of small amounts of alcohol and have also been described from skin contact. Reports of animal test studies, on one or more of the individual ingredients, have shown possible effects to the liver and kidneys. The relevance of these effects to man is unknown. Methanol is a poisonous, narcotic chemical. Ingestion of methanol can cause blindness and death. The fatal dose is 100-250mL, although death from ingestion of 33mL has been reported.

**Other Health Effects:** Causes CNS depression characterized by headache, dizziness, drowsiness, nausea, vomiting, abdominal pain, and in-coordination. Severe overexposures may lead to coma and possible death, due to respiratory failure. Mild blurring of vision to complete blindness may occur, including changes in colour perception, conjunctivitis and photophobia. Symptoms usually develop 12-18 hours after exposure.

### Effects of Chronic Exposure:

**Skin:** Prolonged and repeated exposures may cause dermatitis.

**Ingestion:** Chronic ingestion of large quantities of ethanol may cause liver damage. See "Other Health Effects".

This product contains 2-Butoxyethanol (CAS #111-76-2). Animal studies have shown that this ingredient is a hemolytic agent, characterized by a reduction in blood cells and causes blood in urine. 2-Butoxyethanol (CAS #111-76-2) has been found to produce toxic effects in pregnant rats at about 200ppm, with no apparent increase in congenital defects among the young. 2-Butoxyethanol (CAS #111-76-2) has caused reproductive and blood disorders resulting in kidney, liver and lung damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Pregnant women and persons with pre-existing health disorders should consult their physician before using this product. Persons with pre-existing skin or lung disorders may be susceptible to the effects of this material. Repeated and prolonged overexposure, and/or individual sensitivity, may increase the potential for, and degree of, adverse health effects.

**Irritancy:** Hazardous by WHMIS criteria

**Respiratory Tract Sensitization:** Insufficient data available.

**Carcinogenicity:** Contains suspected carcinogens in the dye complex. Michler's ketone, Basic violet 3 and Rhodamine B are considered to be suspected carcinogens as per either NTP (National Toxicology Program) or IARC (International Agency for Research on Cancer).

**Synergistic Materials:** None known.

**Reproductive Effects:** 2-Butoxyethanol (CAS #111-76-2) has caused reproductive and blood disorders resulting in kidney, liver and lung damage.

**Teratogenicity:** 2-Butoxyethanol (CAS #111-76-2) has been found to produce toxic effects in pregnant rats at about 200ppm, with no apparent increase in congenital defects among the young.

**Mutagenicity:** Insufficient data available.

## SECTION VII - PREVENTATIVE MEASURES

**Gloves:** Solvent impermeable gloves are required for repeated or prolonged contact.

**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:** Immediately flush with large amount of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes. Get immediate medical attention

**Skin:** Remove contaminated clothing, use waterless skin cleaner, followed by soap and water wash. Obtain medical attention if irritation persists.

**Inhalation:** Remove to fresh air, immediately. If breathing has stopped, trained personnel should begin artificial respiration or CPR immediately. If breathing is difficult, trained personnel should administer oxygen. Get immediate medical attention, if warranted.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Get immediate medical attention. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

**SECTION IX - PREPARATION AND ADDITIONAL INFORMATION**

**TDG Shipping Name:** PRINTING INK, flammable  
**Product Identification Number:** UN1210  
**Class:** 3- Flammable Liquid **PG:** III - Relatively Minor Danger

TDG Exemption: If container is in quantity <454L, this product is exempt from TDG requirements.

**Prepared by:** Sterling Marking Products Inc.  
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London, Ontario N6A 5S4

Supersedes: August 17, 2006  
Revision Date: June 28, 2010  
Updated: July 3, 2013

**Expires: 03-Jul-2016**

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).