

Part Number(s): C-1718

**MATERIAL SAFETY DATA SHEET**

**SECTION I - MATERIAL IDENTIFICATION AND USE**

**Material Name Identifier:**

**C-1718 Black Etching Ink**

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](mailto:sales@sterling.ca)

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

Material Use: **Acid Etching Ink Solution**

**TDG Shipping Information:**

Toxic Liquid, Corrosive, Organic, N.O.S.(Cresylic Acid), 6.1 (8), UN 2927, PGII

**WHMIS Classification:**

Class E - Corrosive Material (Contains Cresol)  
 Class B, Division 3 - Combustible Liquids  
 Class D, Division 1B - Acutely Toxic Material (Contains Aniline)

**IATA Shipping (Air):**

Toxic liquid, corrosive, organic, n.o.s. (Cresol)  
**Packaging Instruction for Limited Quantity: Y609**  
**Maximum Net Quantity** (per outer package or over pack): 0.5 L  
 Refer to Pkg. Inst. No. for type of inner packaging and maximum quantity per inner package.

**SECTION II - HAZARDOUS INGREDIENTS**

Component	CAS Registry	Toxicology	Concentration % (w/w)
Cresylic Acid	<b>1319-77-3</b>	ACGIH TLV-TWA 5 ppm (skin) L <sub>D</sub> 50: 1454 mg/kg (oral, rat) L <sub>C</sub> 50: Not Available	58
Aniline	<b>62-53-3</b>	ACGIH TLV-TWA 2 ppm (skin) L <sub>D</sub> 50: 250 mg/kg (oral, rat) L <sub>C</sub> 50: 250 ppm/1H (inhalation, rat)	6
Bismuth Trichloride 99%	<b>7787-60-2</b>	TLV: Not Available L <sub>D</sub> 50: 3334 mg/kg (oral, rat) L <sub>C</sub> 50: Not Available	< 5
Antimony Trichloride	<b>10025-91-9</b>	ACGIH TLV-TWA 0.5 mg/m <sup>3</sup> L <sub>D</sub> 50: 525 mg/kg (oral, rat) L <sub>C</sub> 50: Not Available	3
Hydrochloric Acid 20BE	<b>7647-01-0</b>	ACGIH TLV-CL 2 ppm L <sub>D</sub> 50: Not Available L <sub>C</sub> 50: 3124 ppm/1H (inhalation, rat)	7

**SECTION III - PHYSICAL DATA**

Physical State: Liquid  
 Specific Gravity (H<sub>2</sub>O = 1): 1.1  
 Colour: coloured

% Volatile: N/av  
 Boiling Point (°C): 50 - 411  
 Odour: Pungent

Viscosity: viscous  
Clarity: N/av

Solubility in Water (20 °C): Insoluble  
Flash Point (°C): 70

#### SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Combustible  
LEL (% vol) lowest value of components: 1.3  
UEL (% vol) highest value of components: N/A  
Hazardous Combustion Product: unknown  
Means of Extinction: Alcohol Foam, CO2, Dry Chemical, Water Fog

Flash Point (°C TCC): 70

#### SECTION V - REACTIVITY DATA

Stability: Stable  
Incompatibility: Contact with metals, alkalis, Amines, and Oxidizers may liberate toxic gases.  
Hazardous Decomposition Products: Hydrogen Chloride Evolution is accelerated by heating, may produce antimony, mercury and other hazardous fumes.  
Conditions to Avoid: Sparks and Open Flame. Acid Reacts with many metals to produce hydrogen gas which is a serious fire and explosive hazard.  
Hazardous Polymerization: Will not occur.

#### SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, Skin, Inhalation, Ingestion  
Effects of Acute Exposure: Severe irritation of eyes, nose, throat and skin. High concentrations may cause acute lung damage/edema. Ingestion will have high risk effects. Blood disturbances. Respiratory irritation, dermatitis and nausea may be aggravated by exposure.

**Eye:** May cause severe eye damage.

**Skin:** May cause irritation, burns and poisoning. Aniline and Cresols may be absorbed through skin causing burns and systemic poisoning.

**Inhalation:** TLV 5 ppm ceiling (skin), value from ACGIH. Marked irritation of nose and throat, dizziness, headache. Can produce sever burns, and lung edema.

**Ingestion:** Can cause nausea, vomiting, sever burning sensation and systemic poisoning.

Effects of Chronic Exposure:

Excessive exposure may cause cumulative long-term liver, cardiovascular, and kidney damage.

**Irritancy:** Not Available

**Respiratory Tract Sensitization:** Not Available

**Carcinogenicity:** Antimony and aniline are suspect carcinogens.

**Synergistic Materials:** Not Available

**Reproductive Effects:** Not Available

**Teratogenicity:** Not Available

**Mutagenicity:** Not Available

#### SECTION VII - PREVENTATIVE MEASURES

**Gloves:** Protective Gloves should be worn if contact is likely. Use rubber or plastic.

**Eye Protection:** Safety Eyewear is recommended and should be available to avoid accidental contact.

**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:** Eye wash fountain in the immediate work area. If handling large amounts (gallons), use safety glasses, acid resistant gloves and apron.

**Engineering Controls:** Ventilation should be of sufficient volume and pattern should be provided to keep air contaminant concentrations below current ACGIH TLV limits.

**Leak and Spill Procedure:** Eliminate all sources of ignition. Ventilate area. Avoid breathing vapours. Carefully neutralize with alkali, such as soda ash or lime. Remove by suitable inert absorbing material.

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

**Storage Requirements:** Keep containers closed when not in use, and keep away from heat, sparks, and open flame. Avoid excessive inhalation of vapour or mist.

**Other Precautions:** In accordance with good industrial practice. Handle with care and avoid contact. Use only with adequate ventilation. Wash thoroughly after handling. For industrial use only. Personal protective equipment is dependent on conditions of use.

Wash hands before eating, drinking or smoking. Avoid smoking in work area.

## SECTION VIII - FIRST AID

**Eye:** Flush immediately with water for 15 minutes. See a physician.

**Skin:** Wash with soap and water. Remove contaminated clothing. Consult a physician.

**Inhalation:** Remove to fresh air. Restore breathing. Treat symptoms. Consult a physician.

**Ingestion:** Drink water to dilute. Do not induce vomiting. Consult a physician or poison centre immediately.

## SECTION IX - PREPARATION AND ADDITIONAL INFORMATION

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

Supersedes: September 30, 2008  
Revision Date: June 4, 2011

**Expires: 04-June-2014**

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).