

MSDS Reference Number(s): TLF91289F

**MATERIAL SAFETY DATA SHEET**

**SECTION I - MATERIAL IDENTIFICATION AND USE**

**Material Name Identifier:**

**Hydroflex Black**

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>

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

Material Use: **Printing Ink. Colorant.**

**TDG Shipping Information:**

**Not regulated**

**WHMIS Classification:**

Class B, Division 3 - Combustible Liquids  
 Class D, Division 1A – Very Acutely Toxic Material  
 Class D, Division 2A – Very Chronically Toxic  
 Class D, Division 2B - Skin/Eye Irritant

**IATA Shipping (Air):**

Not regulated

**SECTION II - HAZARDOUS INGREDIENTS**

Component	CAS Registry	Toxicology	Concentration % (w/w)
Butoxyethanol	<b>111-76-2</b>	ACGIH TLV TWA: 20ppm 8 hours L <sub>D</sub> 50: 917mg/kg (oral, rat)	2.5-5
Methyl Alcohol	<b>67-56-1</b>	ACGIH TLV TWA:200ppm 8 hours L <sub>D</sub> 50: 5600 mg/kg (oral, rat) L <sub>D</sub> 50: 15800 mg/kg (skinl, rat) L <sub>C</sub> 50: 64000 ppm; 4 hours (inhalation, rat)	1-2.5
Styrene Monomer	<b>100-42-5</b>	ACGIH TLV TWA:20 ppm 8 hours L <sub>D</sub> 50: 5000 mg/kg (oral, rat) L <sub>C</sub> 50: 2770 ppm; 4 hours (inhalation, rat)	<1

**SECTION III - PHYSICAL DATA**

Physical State: Liquid  
 Colour: Black  
 Viscosity: Not Available  
 Solubility in Water: Not Available

% VOC: 6.1  
 Boiling Point (°C): 100  
 Odour: Not Available  
 Flash Point (°C): 60-93.3 Closed cup

**SECTION IV - FIRE AND EXPLOSION DATA**

Flammability: Combustible

Flash Point (°C TCC): 60-93.3 Closed Cup



LEL (% vol) lowest value of components: Not Available  
UEL (% vol) highest value of components: Not Available  
Hazardous Combustion Products: Oxides of carbon  
Means of Extinction: Carbon dioxide, dry chemical, water spray (fog) or foam

## SECTION V - REACTIVITY DATA

Stability: Stable  
Incompatibility: Oxidizing materials  
Hazardous Decomposition Products: Oxides of carbon.

## SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, Skin, Inhalation, Ingestion

### Effects of Acute Exposure:

**Eye:** Irritating to eyes.

**Skin:** Harmful in contact with skin. Irritating to skin.

**Inhalation:** May cause nose, throat, and respiratory tract irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Ingestion:** Harmful if swallowed.

### Effects of Chronic Exposure:

**Skin:** Repeated or prolonged contact may cause drying, cracking, irritation, and dermatitis.

**Inhalation:** Excessive inhalation of vapours can cause nasal and respiratory irritation.

**Irritancy:** Hazardous by WHMIS criteria

**Respiratory Tract Sensitization:** Insufficient data available

**Carcinogenicity:** Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.

**Synergistic Materials:** No information available

**Reproductive Effects:** No known significant effects or critical hazards.

**Teratogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

## 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:** None required.

**Other Protective Equipment:** As necessary to avoid prolonged contact.

**Engineering Controls:** None required.

**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**

Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Eye:** Check for or remove any contact lenses. Immediately flush eyes with a directed stream of water for atleast 20 minutes, while holding eyelids open. If irritation or redness develops or persists, get medical attention.

**Skin:** Flush affected areas with large amounts of water, remove contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation or redness develops or persists, get medical attention.

**Inhalation:** Remove victim to fresh air. If breathing difficulties develop, administer oxygen and get medical attention. If victim is not breathing, administer artificial respiration and get medical attention.

**Ingestion:** DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs (Aspiration pneumonitis can be fatal). If victim conscious and alert, give victim lukewarm water. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing. GET IMMEDIATE MEDICAL ATTENTION.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**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

Preparation Date: November 7, 2014

**Expires: 07-Nov-2017**

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).