

**MATERIAL SAFETY DATA SHEET**

**SECTION I - MATERIAL IDENTIFICATION AND USE**

**Material Name Identifier:**

**SI-PZ 1000 Black**

Supplier Name: Sterling Marking Products Inc.      Webpage: <http://www.sterling.ca>  
 Street Address: 349 Ridout St. N.,      P.O. Box 5055  
 City and Province: London, Ontario      Postal Code: N6A 5S4  
 Telephone Numbers: (519) 434-5785, (800) 265-5957      Fax Number: (519) 434-9516, (800) 667-6600  
 Emergency Telephone Number: Poison Control Centre \_\_\_\_\_

Material Use: **Ink**

**TDG Shipping Information:**

**Not regulated**

**WHMIS Classification:**

Class D, Division 2B - Skin/Eye Irritant

**IATA Shipping (Air):**

Not Regulated

**SECTION II - HAZARDOUS INGREDIENTS**

<b>Component</b>	<b>CAS Registry</b>	<b>Toxicology</b>	<b>Concentration % (w/w)</b>
Mixture of Colour, Surfactant, Resin, and Oil Products	<b>Not Available</b>	TLV: Not Available L <sub>D</sub> 50: Not Available L <sub>C</sub> 50: Not Available	<b>100</b>

**SECTION III - PHYSICAL DATA**

Physical State: Liquid	% Volatile (by volume): Negligible
Specific Gravity: 0.75-0.97 @ 25C	Boiling Point (°C): N/DA
Colour: Black	Odour: Mild Distinctive Odour
Evaporation Rate (n-Butyl acetate = 1): Not Available	Solubility in Water (20 °C): Negligible
Vapour Density (Air = 1): N/DA	Flash Point (°C): 93.3
Vapour pressure (mm Hg): Negligible	

## SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Combustible

Flash Point (°C TCC): 93.3

LEL (% vol) lowest value of components: N/DA

UEL (% vol) highest value of components: N/DA

Hazardous Combustion Products: Not Available

Potential Hazards: **HIGHLY FLAMMABLE**: Will be easily ignited by heat, sparks or flames. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapour explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated.

Means of Extinction of Small Fire: **CAUTION**: This product has a low flash point: Use of water spray when fighting fire may be inefficient. Small Fires: Dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use media suitable for surrounding fire. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

Special Fire-Fighting Procedures: Clear area of unprotected personnel. Firefighters should wear NIOSH-approved, self-contained breathing apparatus (SCBA). Use water spray to cool fire-exposed surfaces. Also, use water to flush spilled material away from source. Vapours are harmful; stay upwind of a fire to minimize breathing of vapours, gases, fumes, or decomposition products being generated.

Unusual Fire & Explosion Hazards: Containers exposed to intense heat from fire must be cooled to prevent vapour pressure build-up that may result in container rupture. Cool containers exposed directly to flames with large quantities of water as needed to prevent weakening of container itself. Never use a welding or cutting torch on or near container.

Empty Container Warning: "Empty" containers contain residues (liquid, solid, and/or vapour) that can be dangerous. **DO NOT** pressurize, cut, weld, braze, grind, drill, solder, or expose containers to heat, sparks, open flame. They may explode and cause injury and/or death. **DO NOT** attempt to clean drums. Residues are difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioned. Dispose of all containers in an environmentally safe way and in accordance with governmental regulations. For work on tasks, refer to OSHA regulations ANSIZ49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding, or other operations.

## SECTION V - REACTIVITY DATA

Stability: Stable

Incompatibility: Water

Conditions to Avoid: Oxidizing conditions, strong oxidizers, and sparks.

Hazardous Decomposition Products: Acrid smoke-fumes, carbon monoxide, carbon dioxide and possibly other toxic vapors may be released during a fire involving this product.

Hazardous Polymerization: May occur at temperatures above 232.2C

## SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, Skin, Inhalation, Ingestion

### Effects of Acute Exposure:

**Eye:** Can cause irritation, redness, tearing and blurred vision.

**Skin:** Prolonged or repeated contact can cause minor skin irritation.

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

**Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

### Effects of Chronic Exposure:

No data available in the chronic health effects of this material. Some trace components of manganese compounds and copper compounds may be contained. Manganese compounds are not considered toxic by ingestion or skin contact. Chronic overexposure to manganese and its compounds is potentially hazardous due to effects on the central nervous system. This material does not contain enough to reach exposure limitations. Chronic overexposure to copper compounds may cause skin and eye irritation. Ingestion may cause nausea, vomiting and diarrhea. Although this product does not have exposure limits, the trace component limits are: OSHA PEL – 0.1mg/m<sup>3</sup>, ACGIH TLV – 0.2mg/m<sup>3</sup>.

**Irritancy:** Hazardous by WHMIS criteria

**Respiratory Tract Sensitization:** Insufficient data available

**Carcinogenicity:** No component listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Synergistic Materials:** Insufficient data available

**Reproductive Effects:** Insufficient data available

**Teratogenicity:** Insufficient data available

**Mutagenicity:** Insufficient data available

## SECTION VII - PREVENTATIVE MEASURES

**Skin Protection:** Depending on the conditions of use, solvent impermeable gloves are required; apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.

**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.

Use material only with adequate ventilation to prevent exceeding the recommended exposure limit or a build-up of explosive concentrations in the air. Use explosion proof equipment. No smoking or open lights. Air-dry contaminated clothing in a well ventilated area before laundering.

**Engineering Controls:** If handling results in aerosol or vapor generation, local exhaust ventilation is recommended.

**Other Protective Equipment Recommended:** Safety shower and eye wash fountain in the immediate work area. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and thoroughly wash before reuse. Shower after work using plenty of soap and water.

### **Leak and Spill Procedure:**

Always wear protective equipment during clean-up. Absorb with sand or other inert absorbent material. Shovel into sealable container for disposal. Clean residue with water and detergent. Do not flush residue into sewers discharging directly into domestic water systems or natural waterways.

**Waste Disposal:** Review federal, provincial and local government requirements prior to disposal. Use a licensed waste treatment facility or reclaimer.

**Storage Requirements:** Store in a cool (close to normal room temperature), dry well-ventilated area. Keep container tightly closed and separate from incompatibles. Do not reuse containers. Unless specified elsewhere, shelf life is six months from the time of packaging.

**Special Precautions:** As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wear appropriate protective equipment when handling this material. Always wash thoroughly after handling and before eating, drinking, or using tobacco products.

### 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:** Immediately flush eyes with a directed stream of water for at least 15 minutes, while holding eyelids open. Seek 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 unless directed by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions. Seek medical attention if symptoms appear.

### SECTION IX - PREPARATION AND ADDITIONAL INFORMATION

**Prepared by:** Sterling Marking Products Inc.  
Quality Planning and Engineering Department  
349 Ridout St., N.  
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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).