

**MATERIAL SAFETY DATA SHEET**

**SECTION I - MATERIAL IDENTIFICATION AND USE**

**Material Name Identifier:**

**SC-10 Solvent**

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: Solvent

**TDG Shipping Information:**

**1-METHOXY-2-PROPANOL, UN3092**

**Class: 3 - Flammable Liquid**

**PG: III - Relatively Minor Danger**

**WHMIS Classification:**

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

**IATA Shipping (Air):**

1-Methoxy-2-propanol

**Packaging Instruction for Limited Quantity: Y309**

**Maximum Net Quantity** (per outer package): 10L

Refer to Pkg. Inst. No. for inner packaging type and maximum quantity per inner package.

**SECTION II - HAZARDOUS INGREDIENTS**

Ingredients	CAS Registry	Toxicology	Concentration % (w/w)
1-methoxy-2-propanol	<b>107-98-2</b>	Dermal LD50 (Rabbit) 13000 mg/kg Oral LD50 (Rat) 5200 mg/kg Inhalation LC50 (Rat) 54.6 mg/L Inhalation LC50 (Rat) 24 mg/L	99
2-methoxy-1-propanol	<b>1589-47-5</b>	Not available.	<0.5

**Note: All ingredients are listed on the Domestic Substances List (DSL) and the Toxic Substances Control Act (TSCA) list.**

**SECTION III - PHYSICAL DATA**

**Physical State:** Liquid  
**Odour:** Slight Ether  
**pH:** Not Available  
**Specific Gravity:** 0.919 @ 25°C  
**Boiling Point:** 120 °C / 248.3 °F  
**Freezing/Melting Point:** -97°C/-143°F  
**Vapour Pressure:** 11.829 mmHg @ 25°C

**Vapour Density:** 3.12  
**% Volatile by Volume:** Not Available.  
**Evaporation Rate:** Not Available.  
**Solubility:** Infinite.  
**VOCs:** 919 g/L  
**Viscosity:** 1.7 mPa.s @ 25°C  
**Molecular Weight:** Not Available

**SECTION IV - FIRE AND EXPLOSION DATA**

**Flash Point:** 31.1 °C / 88 °F

**Flash Point Method:** Setaflash.

**Autoignition Temperature:** 287 °C / 549 °F

**Flammable Limits in Air (%):** Lower: 1.5 Upper: 13.74

**Extinguishing Media:** Use DRY chemicals, CO<sub>2</sub>, alcohol foam or water spray.

**Special Exposure Hazards:** Isolate and restrict area access. Stay upwind. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

**Hazardous Decomposition/Combustion Materials (under fire conditions):** The smoke may contain unidentified toxic and/or irritating compounds. Carbon monoxide. Carbon dioxide.

**Special Protective Equipment:** Fire fighters should wear full protective clothing, including self-contained breathing equipment.

**NFPA RATINGS FOR THIS PRODUCT ARE:** HEALTH 1, FLAMMABILITY 3, INSTABILITY 0

**HMIS RATINGS FOR THIS PRODUCT ARE:** HEALTH 1, FLAMMABILITY 3, REACTIVITY 0

**SECTION V - REACTIVITY DATA**

**Chemical Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Avoid contact with heat, sparks, open flame, and static discharge.

**Materials to Avoid:** Oxidizing materials. Strong acids and bases.

**Hazardous Decomposition Products:** Hazardous decomposition products depend upon temperature, air supply, and the presence of other materials. Hazardous decomposition products may include and are not limited to : aldehydes, ketones, organic acids. Carbon monoxide. Carbon dioxide.

**Additional Information:**

No additional remark.

**SECTION VI - TOXICOLOGICAL PROPERTIES**

### Principle Routes of Exposure

**Ingestion:** Low toxicity. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury.

**Skin Contact:** Prolonged contact can cause skin irritation.

LA1343

Glycol Ether PM

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**Inhalation:** The odor is objectionable at 100 ppm; higher levels produce eye, nose, and throat irritation and are intolerable at 1000 ppm. Anesthetic effects are seen at or above 1000 ppm.

**Eye Contact:** May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

**Additional Information:** Repeated overexposure may cause liver and kidney effects. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed.

**Acute Test of Product:**

**Acute Oral LD50:** Not Available.

**Acute Dermal LD50:** Not Available.

**Acute Inhalation LC50:** Not Available.

**Carcinogenicity:**

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
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1-methoxy-2-propanol	Not listed.	Not listed.
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2-methoxy-1-propanol	Not listed.	Not listed.
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**Carcinogenicity Comment:** No additional information available.

**Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity:** Not Available.

### SECTION VII - PREVENTATIVE MEASURES

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

**Eye Protection:** Wear safety glasses where contact with the eye is anticipated. Chemical safety goggles 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.

**Other Protective Equipment Recommended:** Eye wash station in the 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.

**Leak and Spill Procedure:** Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified above. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with inert material (E.g. vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapours, to protect personnel attempting to stop leak, and to flush spills away from exposures.

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

**Handling:** Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Keep the containers closed when not in use. Use with adequate ventilation. Never use air pressure for transferring product. No smoking or open flame in storage, use or handling areas. Ensure proper electrical grounding procedures are in place. Use non-sparking tools. Containers, even those that have been emptied, will retain product residue and vapour and should be handled as if they were full until they have been cleaned. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion.

**Storage:** Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store in carbon steel, stainless steel, Teflon. Use explosion-proof ventilation to prevent vapour accumulation. Store in accordance with good industrial practices.

#### SECTION VIII - FIRST AID

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Notes to Physician:** No specific antidote. Treatment based on sound judgment of physician and individual reactions of patient.

#### SECTION IX - PREPARATION AND ADDITIONAL INFORMATION

**Prepared by:** Sterling Marking Products Inc.  
Quality Planning and Engineering Department  
349 Ridout St., N.  
London, Ontario N6A 2N8

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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).