

**MATERIAL SAFETY DATA SHEET**

**SECTION I - MATERIAL IDENTIFICATION AND USE**

**Material Name Identifier:**

**Lectroetch Electrolyte 112A**

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: **Electrolyte**

**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>
Nitrate Salt	<b>Proprietary</b>	TLV: Not available L <sub>D</sub> 50: Not available L <sub>C</sub> 50: Not available	1-5
Nitrate Salt	<b>Proprietary</b>	TLV: Not available L <sub>D</sub> 50: Not available L <sub>C</sub> 50: Not available	1-5
Citrate Salt	<b>Proprietary</b>	TLV: Not available L <sub>D</sub> 50: Not available L <sub>C</sub> 50: Not available	2-8
Borate Salt	<b>Proprietary</b>	TLV: Not available L <sub>D</sub> 50: Not available L <sub>C</sub> 50: Not available	0.5-2
Anionic Surfactant	<b>0126-92-1</b>	TLV: Not available L <sub>D</sub> 50: Not available L <sub>C</sub> 50: Not available	1-3
Water	<b>7732-18-5</b>	TLV: Not available L <sub>D</sub> 50: Not available L <sub>C</sub> 50: Not available	81-87

**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  
 Specific Gravity: Approx. 1.05  
 Colour: None  
 Viscosity: As water

Vapour Pressure: Not established  
 Boiling Point (°C): 100  
 Odour: Slight  
 Solubility in Water (20 °C): Complete

Clarity: Transparent

pH: 9.30

Evaporation Rate: Similar to water

#### SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Not flammable

Flash Point (°C TCC): None

LEL (% vol) lowest value of components: Not applicable

UEL (% vol) highest value of components: Not applicable

Hazardous Combustion Products: Not established

Means of Extinction: Will not burn.

#### SECTION V - REACTIVITY DATA

Stability: Stable

Incompatibility: Not established

Hazardous Decomposition Products: Not established

#### SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, Skin

Effects of Acute Exposure:

**Eye:** Can cause irritation.

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

Effects of Chronic Exposure:

None

**Irritancy:** Hazardous by WHMIS criteria

**Respiratory Tract Sensitization:** Not hazardous by WHMIS criteria

**Carcinogenicity:** Not hazardous by WHMIS criteria

**Synergistic Materials:** Not hazardous by WHMIS criteria

**Reproductive Effects:** Not hazardous by WHMIS criteria

**Teratogenicity:** Not hazardous by WHMIS criteria

**Mutagenicity:** Not hazardous by WHMIS criteria

#### SECTION VII - PREVENTATIVE MEASURES

**Gloves:** Gloves are recommended for repeated or prolonged contact or on sensitive skin.

**Eye Protection:** Wear safety glasses meeting the specification of ANSI Z87.1 where 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. 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:** Immediately flush eyes with a directed stream of water for at 15minutes, 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:** Not an expected route of exposure. If breathing difficulties develop, Remove victim to fresh air. If victim is not breathing, administer artificial respiration and get medical attention.

**Ingestion:** Not an expected route of exposure. **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.**

**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: None  
Revision Date: 06-May-2010

**Expires: 06-May-2013**

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).