

Millennium Signatures Marking Systems Inc.

Phone: 905-639-0909

Email: info@millenniumsignatures.com

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION AND COMPANY DETAIL

Product Name: 59 NCL Electrolyte
Product Code(s): 59 NCL
Recommended Use: For use in the Electro-Chemical Etching Process
Manufacturers Name: Millennium Signatures Marking Systems, Inc.
Address: 12-1550 Yorkton Court
Burlington ON, L7P 5B7

Emergency Telephone: (905) 639-0909, available during office hours, 8:30am - 4:00pm EST, Monday - Friday, in English.

Fax Number: (905) 639-0919
Date Prepared: January 4, 2017

HMIS	
H	1
F	0
R	1
PPE [†]	
†Sec. 8	

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (specific chemical identity/Common name):

SOLIDS: Mixed Nitrate Salts (trade secret)4% ACGIH TLV: None Established TXDS: ORL-HMN LDLO: 500 MG/KG

LIQUIDS:

TRADE SECRET: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 3 – HAZARD INFORMATION

Inhalation: N/A
Ingestion: Toxic to digestive tract and central nervous system. May decrease ability of blood to carry oxygen. Nausea, vomiting, diarrhea, and possible facial discoloration.
Skin contact: Irritation. Dermatitis possibly aggravated.
Eye contact: Irritation.

SECTION 4 – FIRST AID MEASURES

Skin contact: Flush thoroughly with water for fifteen minutes.
Eye contact: Flush thoroughly with water for fifteen minutes.

SAFETY DATA SHEET

Ingestion: Give emetic and contact physician.
Inhalation: N/A

Always seek medical attention if irritation continues.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media: N/A
Special firefighting procedures: N/A
Unusual fire and explosions hazards: N/A

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

SMALL SPILLS: Flush with water to sewer.
LARGE SPILLS: Use suitable absorbent and dispose of in dot approved waste containers.
WASTE DISPOSAL: To be performed in compliance with all current local, state and federal regulations.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in the event of spillage or chemical release:

Waste disposal method: To be performed in compliance with all current local, state and federal regulations.
Precautions to be taken in Handling and Storage: Keep container tightly closed, and keep from freezing (32°F).
Wash hands thoroughly after handling.
Other Precautions: None

SECTION 8 – EXPOSURE CONTROLS – PERSONAL PROTECTION

Occupation Exposure Limits: N/A **Personal Protective Equipment:**
Respiratory System: N/A
Skin and Body: Optional - apron
Hands: Optional- for sensitive skin wear rubber gloves.
Eyes: For extra protection, wear safety goggles.
Other/Special: Local exhaust sufficient

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

SAFETY DATA SHEET

Color: Clear
Odor: Slight odor
Odor Threshold: N/A
pH: 2.8 to 3.2
Boiling Point: 212°F
Melting / Freezing Point: Melting - N/A Freezing - below 32°F
Flash Point: N/A
Fire Hazards in presence of various substances:
N/A
Auto-ignition temperature: N/A
Explosive Properties: N/A
explosion limit: N/A
Oxidizing properties: N/A
Vapor Pressure (mm Hg.): @25°C (77°F):23.7
Evaporation Rate (Butyl Acetate= 1): N/A
Density: N/A
Solubility: Complete (100%)
Vapor Density: N/A

SECTION 10 – REACTIVITY DATA

Stability: Stable
Conditions to avoid: If solution dries; heat, open flame sparks.
Incompatibility: (materials to avoid) If solution dries; reducing agents, organic material, oxidizers.
Hazardous Decomposition or By-products: None, but surrounding fire may produce nitrogen oxides.
Hazardous polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No IARC: No OSHA: No

Health Hazards (Acute & Chronic);

Toxic to digestive tract and central nervous system.
May decrease ability of blood to carry oxygen.
Nausea, vomiting, diarrhea, and possible facial discoloration.
May cause irritation to eyes.
May cause irritation skin.
Dermatitis can possibly be aggravated.

SECTION 12 – ECOLOGICAL INFORMATION

SAFETY DATA SHEET

N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations.

SECTION 14 – TRANSPORT INFORMATION

Keep container tightly closed and keep from freezing (32° F).

SECTION 15 – TRANSPORT INFORMATION

IRRITANT

Safety Phrases: N/A

Risk Phrases: N/A

Regulations: N/A

SECTION 16 – OTHER INFORMATION

Source of key data used to

Compile Safety Data Sheet: Material Safety Data Sheet. Essentially similar to U.S. Department of Labor Form OSHA-20

Issue Date: 26 February 1987

Changes to Issue: 15 April 2015

WE CANNOT ANTICIPATE ALL CONDITIONS UNDER WHICH THIS INFORMATION AND OUR PRODUCTS, OR THE PRODUCTS OF OTHER MANUFACTURERS IN COMBINATION WITH OUR PRODUCTS MAY BE USED. WE ACCEPT NO RESPONSIBILITY FOR RESULTS OBTAINED BY THE APPLICATIONS OF THIS INFORMATION OR THE SAFETY AND SUITABILITY OF OUR PRODUCTS, EITHER ALONE OR IN COMBINATION WITH OTHER PRODUCTS. USERS ARE ADVISED TO MAKE THEIR OWN TESTS TO DETERMINE THE SAFETY AND SUITABILITY OF EACH SUCH PRODUCT OR PRODUCT COMBINATION FOR THEIR OWN PURPOSES. UNLESS OTHERWISE AGREED IN WRITING, WE SELL THE PRODUCTS WITHOUT WARRANTY, AND BUYERS AND USERS ASSUME ALL RESPONSIBILITY AND LIABILITY FOR LOSS OR DAMAGE ARISING FROM THE HANDLING AND USE OF OUR PRODUCTS, WHETHER USED ALONE OR IN COMBINATION WITH OTHER PRODUCTS.

THE FORMULAS USED FOR THESE PRODUCTS ARE CONSIDERED CONFIDENTIAL TRADE SECRETS. THIS INFORMATION IS FOR OUR CUSTOMERS EYES ONLY.

© MILLENNIUM SIGNATURES MARKING SYSTEMS INC.