

Millennium Signatures Marking Systems Inc.

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SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION AND COMPANY DETAIL

Product Name: X4R-417 Electrolyte
Product Code(s): X4R-417
Manufacturers Name: Millennium Signatures Marking Systems Inc.
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Burlington ON, L7P 5B7
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Fax Number: (905) 639-0919
Date Prepared: January 4, 2017

HMIS	
H	2
F	0
R	1
PPE [†]	
† Sec. 8	

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Not considered Hazardous under current OSHA Regulations.

Hazardous Components (specific chemical identity/ Common name):

SOLIDS: Nitrate Salt (trade secret) 4%
Oxalic Acid (trade secret) 0.1%

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: Large quantities of Oxalic Acid can be fatal. It can possibly damage G.I. tract and central nervous systems. Nausea, shock, convulsion, facial discoloration and death at five grams

Skin contact: Generally aggravated by exposure: Dermatitis may possibly be aggravated on contact

Eye contact: Irritation, burning to mucous membranes on contact

SECTION 4 – FIRST AID MEASURES

Skin contact: Wash with soap and water thoroughly after handling.

Eye contact: Flush eyes with thoroughly with water for 15 minutes; if irritation continues, consult physician.

Ingestion: Do not induce vomiting. Give diluted milk of magnesia, lime water, or milk.

Inhalation: Local exhaust is sufficient.

Always seek medical attention if irritation continues.

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SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media: N/A
Special firefighting procedures: N/A
Unusual fire and explosions hazards: None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment: rubber gloves, safety goggles, optional-apron **Steps to be taken in the event of accidental release:**

Small Spills: Flush with water to sewer.

Large Spills: Use suitable absorbent and dispose of in DOT approved waste containers.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

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

Small Spills: Flush with water to sewer. Minimize release of chemicals into the environment.

Large Spills: Use suitable absorbent and dispose of in DOT approved waste containers.

Waste disposal method: Disposal of material should be in compliance with all current local, state and federal regulations.

Precautions to be taken in Handling and Storage: Keep container tightly closed. Keep from freezing (32 degrees [F]) Wash hand thoroughly after handling. No eating, drinking or smoking in work area.

Incompatibility: (materials to avoid) Strong acids, strong reducing agents, chlorites, and hypochlorites.

Hazardous Polymerization: May Occur

Other Precautions: Wash hands thoroughly after handling.

SECTION 8 – EXPOSURE CONTROLS – PERSONAL PROTECTION

Occupation Exposure Limits: N/A **Personal Protective Equipment:**

Respiratory System: Local exhaust is sufficient.

Skin and Body: Optional-Apron

Hands: Rubber gloves.

Eyes: Safety glasses or goggles

Other/Special: Local exhaust is sufficient.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid and suspension.

Color: Clear fluid.

Odor: slight odor

Odor Threshold: N/A

pH: 1.8 to 2.2

Boiling Point: 212° (F)

Melting/Freezing Point: N/A - Freezing below 32° (F)

% Volatile: N/A

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Flash Point: N/A
Fire Hazards in presence of various substances: N/A
Auto-ignition temperature: N/A
Explosive Properties: No risk
Lower explosion limit: N/A
Oxidizing properties: N/A
Vapor Pressure: (mm Hg.) @ 25° (C) [77° (F)] : 23.7
Evaporation Rate: Like water
Density: Like water
Solubility: Complete (100%)
Vapor Density: Like water

SECTION 10 – REACTIVITY DATA

Stability: STABLE
Conditions to avoid: N/A
Incompatibility: (materials to avoid) Strong acids, strong reducing agents, chlorites, and hypochlorites.
Hazardous Decomposition or By-products: None, but surrounding fire may release oxides of nitrogen.
Hazardous polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No

The toxicological information for the components is: N/A

Acute effects

Causes eye irritation.

Causes skin irritation.

Material is irritating to mucous membranes.

May be harmful by ingestion or if contacted with skin. Large quantities of Oxalic Acid can be fatal. It can possibly damage G.I. tract and central nervous systems. Nausea, shock, convulsion, facial discoloration and death at five grams.

SECTION 12 – ECOLOGICAL INFORMATION

Potential as Pollutant: Material is not considered a pollutant.

SECTION 13 – DISPOSAL CONSIDERATIONS

Effective waste disposal treatment should be utilized. COD – 495,000ppm

Biological: Capable of biological oxidation

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SECTION 14 – TRANSPORT INFORMATION

Special Precautions: Keep from freezing (32 degrees [F])

SECTION 15 – TRANSPORT INFORMATION

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 Feb 1987

Changes to Issue:

31 March 2015

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