

# Millennium Signatures Marking Systems Inc.

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## SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|                                                                 |                                              |                             |  |
|-----------------------------------------------------------------|----------------------------------------------|-----------------------------|--|
| PRODUCT IDENTIFIER<br>Electrolyte X4R-422                       |                                              |                             |  |
| PRODUCT USE<br>ELECTROLYTIC / ELECTROCHEMICAL METAL INSCRIPTION | 1                                            | <b>HEALTH</b>               |  |
| MANUFACTURER'S NAME<br>Millennium Signatures                    |                                              | <b>FLAMMABILITY</b>         |  |
| STREET ADDRESS<br>12-1550 Yorkton Court                         |                                              | <b>PHYSICAL HAZARD</b>      |  |
| CITY<br>Burlington                                              | STATE/PROVINCE<br>ON                         | PERSONAL PROTECTION         |  |
| POSTAL CODE<br>L7P 5B7                                          | EMERGENCY TELEPHONE<br><b>1-800-755-3824</b> |                             |  |
| DATE SDS PREPARED<br>January 4 2017                             | DS PREPARED BY                               | HOME NUMBER<br>905-639-0909 |  |

### SECTION 2- HAZARDOUS IDENTIFICATION

|                                                              |                                                                          |                       |                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|
| 2.1 Classification of Substance or Mixture                   |                                                                          | SIGNAL WORD : WARNING |  |
| GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) |                                                                          |                       |                                                                                      |
| Labeling Elements                                            | WARNING                                                                  |                       |                                                                                      |
| H272 MAY INTENSIFY FIRE / OXIDIZER                           | H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS                   |                       |                                                                                      |
| EMERGENCY OVERVIEW                                           | ACUTE EXPOSURE MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY SYSTEM |                       |                                                                                      |

### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENTS (SPECIFIC)                                                                                                      | CAS NUMBER | LC50 OF INGREDIENT (SPECIFY SPECIES) |
|-----------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------|
| POTASSIUM NITRATE                                                                                                           | 7757-59-1  | 3750 mg/kg RAT / ORAL                |
| WATER                                                                                                                       | 7732-18-5  | NOT AVAILABLE                        |
| EXACT PERCENTAGE (CONCENTRATION) OF THE COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET IN ACCORDANCE WITH 29 CFR 1910.1200 |            |                                      |
| SEE SECTION 2 FOR ADDITIONAL INFORMATION                                                                                    |            |                                      |

### SECTION 4 - FIRST AID MEASURES

|                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------|
| SKIN CONTACT: IMMEDIATELY FLUSH WITH WATER.                                                                                  |
| EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART. CALL A PHYSICIAN IF IRRITATION CONTINUES. |
| INHALATION: SEEK FRESH AIR.                                                                                                  |
| INGESTION: IF SWALLOWED, IF CONSCIOUS, IMMEDIATELY GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION.                       |

### SECTION 5 - FIRE FIGHTING MEASURES

|                            |                                               |
|----------------------------|-----------------------------------------------|
| FLAMMABLE<br>YES      NO X | YES, UNDER WHAT CONDITIONS?<br>NOT APPLICABLE |
|----------------------------|-----------------------------------------------|

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|                                                                                                                                   |                                                       |                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------|
| FLASHPOINT AND METHOD<br>NON COMBUSTIBLE                                                                                          | UPPER FLAMMABLE LIMIT (BY VOLUME)<br>NOT AVAILABLE    | LOWER FLAMMABLE LIMIT (BY VOLUME)<br>NOT AVAILABLE                |
| AUTOIGNITION TEMPERATURE<br>NOT AVAILABLE                                                                                         | EXPLOSION DATA/SENSITIVITY TO IMPACT<br>NOT AVAILABLE | EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE<br>NOT AVAILABLE |
| HAZARDOUS COMBUSTION PRODUCTS<br>CONTAINS STRONG OXIDIZERS. DRIED RESIDUES, EXPOSED TO HEAT MAY EXPLODE OR ACCELERATE COMBUSTION. |                                                       |                                                                   |

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

|                                                                                                            |
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| LEAK AND SPILL PROCEDURE                                                                                   |
| WEAR SUITABLE PROTECTIVE CLOTHING. ABSORB WITH VERMICULITE, PAPER, ETC. AND REMOVE. FLUSH AREA WITH WATER. |

## SECTION 7 - HANDLING AND STORAGE

|                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------|
| HANDLING PROCEDURES AND EQUIPMENT<br>WEAR PROPER PROTECTIVE EQUIPMENT. DO NOT BREATHE VAPOR / AEROSOL.                                   |
| STORAGE REQUIREMENTS<br>KEEP CONTAINER CLOSED TO AVOID EVAPORATION. KEEP FROM FREEZING. STORE IN COOL DRY PLACE, OUT OF DIRECT SUNLIGHT. |

## SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

|                                                                                                                                               |
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| EXPOSURE LIMITS<br>ONE                                                                                                                        |
| SPECIFIC ENGINEERING<br>CONTROLS LOCAL EXHAUST                                                                                                |
| PERSONAL PROTECTIVE EQUIPMENT<br>GLOVES X RESPIRATOR EYE X FOOTWEAR CLOTHING X OTHER                                                          |
| IF CHECKED, PLEASE SPECIFY TYPE<br>NEOPRENE GLOVES AND UNIFORM OR APRON ARE RECOMMENDED. SAFETY GLASSES OR GOGGLES. SAFETY SHOWER / EYE WASH. |

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

|                                   |                                                        |                                 |
|-----------------------------------|--------------------------------------------------------|---------------------------------|
| PHYSICAL STATE<br>LIQUID          | APPEARANCE<br>COLORLESS, CLEAR                         | ODOR<br>ODORLESS                |
| SPECIFIC GRAVITY<br>1.032         | VAPOR DENSITY<br>NOT AVAILABLE                         | VAPOR PRESSURE<br>NOT AVAILABLE |
| EVAPORATION RATE<br>NOT AVAILABLE | BOILING POINT<br>>100°C                                | FREEZING POINT<br>NOT AVAILABLE |
| NOT AVAILABLE                     | COEFFICIENT OF WATER/OIL DISTRIBUTION<br>NOT AVAILABLE | SOLUBILITY IN WATER<br>MISCIBLE |

## SECTION 10 - STABILITY AND REACTIVITY

|                                                          |                                                                                                   |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| CHEMICAL STABILITY<br>STABLE                             | IF NO. UNDER WHAT CONDITIONS?<br>AVOID EXCESSIVE HEAT AND OTHER SOURCES OF IGNITION               |
| INCOMPATIBIUTY WITH OTHER SUBSTANCES<br>YES              | IF YES, WHICH ONES?<br>DRIED RESIDUES AVOID ORGANIC AND COMBUSITBLE MATERIAL, AND STRONG REDUCING |
| AGENTS                                                   |                                                                                                   |
| REACTIVITY, AND UNDER WHAT CONDITIONS?<br>NOT APPLICABLE |                                                                                                   |
| HAZARDOUS DECOMPOSITION PRODUCTS<br>OXIDES OF NITROGEN   |                                                                                                   |

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## SECTION 11 - TOXICOLOGICAL INFORMATION

|                                                                                                                                             |                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| EFFECTS OF ACUTE EXPOSURE<br>IRRITATION OF EYES, SKIN AND RESPIRATORY SYSTEM. POSSIBLE EYE DAMAGE. NAUSEA, VOMITING AND DIARRHEA MAY OCCUR. |                                                |
| EFFECTS OF CHRONIC EXPOSURE<br>NO DATA                                                                                                      |                                                |
| SKIN SENSITIZATION<br>NO DATA AVAILABLE                                                                                                     | RESPIRATORY SENSITIZATION<br>NO DATA AVAILABLE |
| CARCINOGENICITY - IARC<br>NO DATA AVAILABLE                                                                                                 | CARCINOGENICITY - ACGIH<br>NO DATA AVAILABLE   |
| REPRODUCTIVE TOXICITY<br>NO DATA AVAILABLE                                                                                                  | TERATOGENICITY<br>NO DATA AVAILABLE            |
| EMBRYOTOXICITY<br>NO DATA AVAILABLE                                                                                                         | MUTAGENECITY<br>NO DATA AVAILABLE              |
| NAME OF SYNERGISTIC PRODUCTS/EFFECTS<br>NO DATA AVAILABLE                                                                                   |                                                |

## SECTION 12 - ECOLOGICAL INFORMATION

|                                                                                                                                                |
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| AQUATIC TOXICITY<br>MILLENNIUM SIGNATURES HAS NOT CONDUCTED SPECIFIC STUDIES ON THE ECOLOGICAL TOXICITY OR ENVIRONMENTAL FATE OF THIS PRODUCT. |
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## SECTION 13 - DISPOSAL CONSIDERATIONS

|                                                                                                                     |
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| WASTE DISPOSAL<br>DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. |
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## SECTION 14 - TRANSPORT INFORMATION

|                                      |                        |
|--------------------------------------|------------------------|
| SPECIAL SHIPPING INFORMATION<br>NONE | NOT APPLICABLE         |
| NOT APPLICABLE                       | DOT<br>NOT APPLICABLE  |
| MO<br>NOT APPLICABLE                 | ICAO<br>NOT APPLICABLE |

## SECTION 15 - REGULATORY INFORMATION

|                                                                                                                                                                                    |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| HMIS CLASSIFICATION<br>NOT APPLICABLE                                                                                                                                              | OSHA<br>NOT APPLICABLE |
| ERA<br>NOT APPLICABLE                                                                                                                                                              | SCA<br>NOT APPLICABLE  |
| THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH ALL THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE SDS CONTAINS ALL THE INFORMATION REQUIRED BY CPR. |                        |

## SECTION 16 - OTHER INFORMATION

|                                                                                                                                                                                                                                   |
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| MILLENNIUM SIGNATURES RECOMMENDS THAT ALL EMPLOYERS DEVELOP, IMPLEMENT, AND TRAIN ALL EMPLOYEES IN PROPER WORKPLACE SAFETY PROCEDURES AND PRACTICES CONTAINED IN OSHA 29 CFR PART 1910 OCCUPATIONAL SAFETY AND HEALTH STANDARDS). |
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