

Millennium Signatures Marking Systems Inc.

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SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER X4R-423 Electrolyte			
PRODUCT USE ELECTROLYTIC / ELECTROCHEMICAL METAL INSCRIPTION	1	HEALTH	
MANUFACTURER'S NAME Millennium Signatures Marking Systems		FLAMMABILITY	
STREET ADDRESS 12-1550 Yorkton Court		PHYSICAL HAZARD	
PROVINCE Burlington	STATE Ontario	C	PERSONAL PROTECTION
POSTAL CODE L8H 2K3	EMERGENCY TELEPHONE 1-800-755-3824		
DATE SDS PREPARED January 4, 2017	SDS PREPARED BY	PHONE NUMBER 905-639-0909	

SECTION 2- HAZARDOUS IDENTIFICATION

2.1 Classification of Substance or Mixture :	SIGNAL WORD : WARNING		
NOT CLASSIFIED According to 29 CFR 1910.1200 sec. 2 (5 ii)			
2.2 Labeling Elements : WARNING			
2.3 Other Hazards listed below			
H302 HARMFUL IF SWALLOWED	H318 MAY CAUSE EYE DAMAGE	H411: HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECT IN THE AQUATIC ENVIRONMENT	
EMERGENCY OVERVIEW	ACUTE EXPOSURE MAY CAUSE IRRITATION TO EYES, AND AND UPPER RESPIRATORY SYSTEM.		

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS (SPECIFIC)	CAS NUMBER	LC50 OF INGREDIENT (SPECIFY SPECIES)
MANGANESE CHLORIDE	13446-34-9	250 mg/kg RAT / ORAL
TERGITOL	127087-87-0	NOT AVAILABLE
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

SECTION 4 - FIRST AID MEASURES

SKIN CONTACT
IN CASE OF CONTACT IMMEDIATELY FLUSH WITH WATER. CALL A PHYSICIAN IF IRRITATION CONTINUES.
EYE CONTACT
FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART. CALL A PHYSICIAN IF IRRITATION CONTINUES.
INHALATION
SEEK FRESH AIR.

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INGESTION

IF SWALLOWED, IF CONSCIOUS, IMMEDIATELY GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE ES NO X	IF YES. UNDER WHAT CONDITIONS? NOT APPLICABLE	
FLASHPOINT AND METHOD NON COMBUSTIBLE	UPPER FLAMMABLE LIMIT BY VOLUME) NOT AVAILABLE	LOWER FLAMMABLE LIMIT (0.6 BY VOLUME) NOT AVAILABLE
AUTOIGNITION TEMPERATURE NOT AVAILABLE	EXPLOSION DATA - SENSITIVITY TO IMPACT NOT AVAILABLE	EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE NOT AVAILABLE

HAZARDOUS COMBUSTION PRODUCTS

CONTAINS A STRONG OXIDIZER, DRIED RESIDUES, EXPOSED TO HEAT MAY EXPLODE OR ACCELERATE COMBUSTION.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

AVOID CONTACT WITH THE SKIN. WEAR PROPER PROTECTIVE EQUIPMENT. DO NOT BREATHE VAPOR / AEROSOL.

STORAGE REQUIREMENTS

KEEP CONTAINER CLOSED TO AVOID EVAPORATION. KEEP FROM FREEZING. STORE IN COOL DRY PLACE, OUT OF DIRECT SUNLIGHT.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE LIMITS NONE

SPECIFIC ENGINEERING

CONTROLS LOCAL EXHAUST

PERSONAL PROTECTIVE EQUIPMENT

GLOVES X RESPIRATOR EYE X FOOTWEAR CLOTHING X OTHER

IF CHECKED, PLEASE SPECIFY TYPE

NEOPRENE GLOVES AND UNIFORM OR APRON ARE RECOMMENDED. SAFETY GLASSES OR GOGGLES. SAFETY SHOWER / EYE WASH.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE LIQUID	APPEARANCE PINK, CLEAR	ODOR ACIDIC
SPECIFIC GRAVITY 1.158	VAPOR DENSITY NOT AVAILABLE	VAPOR PRESSURE NOT AVAILABLE
EVAPORATION RATE NOT AVAILABLE	BOILING POINT UNKOWN: > 100°C	FREEZING POINT NOT AVAILABLE
NOT AVAILABLE	COEFFICIENT OF WATER/OIL DISTRIBUTION NOT AVAILABLE	SOLUBILITY IN WATER COMPLETELY MISCIBLE

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY STABLE	IF NO, UNDER WHAT CONDITIONS? NOT APPLICABLE
INCOMPATIBILITY WITH OTHER SUBSTANCES NONE	IF YES, WHICH ONES? NOT APPLICABLE
REACTIVITY, AND UNDER WHAT CONDITIONS? NOT APPLICABLE	

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HAZARDOUS DECOMPOSITION PRODUCTS
HYDROGEN CHLORIDE

SECTION 11 - TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE IRRITATION OF EYES, SKIN AND RESPIRATORY SYSTEM. POSSIBLE EYE DAMAGE. NAUSEA, VOMITING AND DIARRHEA MAY OCCUR.	
EFFECTS OF CHRONIC EXPOSURE NOT APPLICABLE	
SKIN SENSITIZATION NO DATA AVAILABLE	RESPIRATORY SENSITIZATION NO DATA AVAILABLE
CARRCINOGENICITY - IARC NO DATA AVAILABLE	CARCINOGENICITY - ACGIH NO DATA AVAILABLE
REPRODUCTIVE TOXICITY NO DATA AVAILABLE	TERATOGENCITY NO DATA AVAILABLE
EMBRYOTOXICITY NO DATA AVAILABLE	MUTAGENICITY NO DATA AVAILABLE
NAME OF SYNERGISTIC PRODUCTS/EFFECTS NO DATA AVAILABLE	

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY
MILLENNIUM SIGNATURES HAS NOT CONDUCTED SPECIFIC STUDIES ON THE ECOLOGICAL TOXICITY OR ENVIRONMENTAL FATE OF THIS PRODUCT

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION NONE	PIN NOT APPLICABLE
NOT APPLICABLE	DOT NOT APPLICABLE
MO NOT APPLICABLE	ICAO NOT APPLICABLE

SECTION 15 - REGULATORY INFORMATION

HMS CLASSIFICATION NOT APPLICABLE	OSHA NOT APPLICABLE
ERA NOT APPLICABLE	SCA 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

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)