

Millennium Signatures Marking Systems Inc.

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SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER X4R-428 ELECTROLYTE			
PRODUCT USE ELECTROLYTIC / ELECTROCHEMICAL METAL INSCRIPTION		1	HEALTH
MANUFACTURER'S NAME Millennium Signatures Marking Systems Inc.		0	FLAMMABILITY
STREET ADDRESS 12-1550 Yorkton Court		0	PHYSICAL HAZARD
CITY BURLINGTON	STATE ON	C	PERSONAL PROTECTION
POSTAL CODE 13501	EMERGENCY TELEPHONE 1-800-755-3824		
DATE SDS PREPARED January 4, 2017	SDS PREPARED BY PAB	PHONE NUMBER 905-639-0909	

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS (SPECIFIC)	% BY VOLUME	CAS NUMBER	LD50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFY SPECIES)
MAGNESIUM CHLORIDE	< 10		NOT AVAILABLE	NOT AVAILABLE

SECTION 3 - HAZARDS IDENTIFICATION

ROUTE OF ENTRY				
SKIN CONTACT X	SKIN ABSORPTION	EYE CONTACT X	INHALATION X	INGESTION X
EMERGENCY OVERVIEW CHRONIC EXPOSURE MAY CAUSE IRRITATION. INGESTION MAY CAUSE NAUSEA, VOMITING, GASTROINTESTINAL IRRITATION AND DIARRHEA. CONTACT WITH SKIN OR EYES MAY CAUSE IRRITATION.				

SECTION 4 - FIRST AID MEASURES

SKIN CONTACT IN CASE OF CONTACT IMMEDIATELY FLUSH WITH SOAP AND 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.
INGESTION IF SWALLOWED, IF CONSCIOUS, IMMEDIATELY GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION.

SECTION 5 - FIRE FIGHTING MEASURES

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

HAZARDOUS COMBUSTION PRODUCTS

CAN BE RELEASED IN CASE OF FIRE: CHLORINE DECOMPOSITION PRODUCTS, NITROGEN OXIDES.

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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 OR NIOSHA/MSHA APPROVED RESPIRATOR WHEN MATERIAL IS HEATED.

PERSONAL PROTECTIVE EQUIPMENT

GLOVES X RESPIRATOR EYE X FOOTWEAR CLOTHING X OTHER

IF CHECKED, PLEASE SPECIFY WHICH 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 COLORLESS, CLEAR	ODOR ODORLESS
SPECIFIC GRAVITY 1.02	VAPOR DENSITY 1.03 g/ml	VAPOR PRESSURE NOT AVAILABLE
EVAPORATION RATE NOT AVAILABLE	BOILING POINT UNKOWN: > 212°F	FREEZING POINT NOT AVAILABLE
PH NOT AVAILABLE	COEFFICIENT OF WATER/OIL DISTRIBUTION NOT AVAILABLE	SOLUBILITY IN WATER MISCIBLE

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY STABLE	IF NO, UNDER WHAT CONDITIONS? NOT APPLICABLE
INCOMPATIBILITY WITH OTHER SUBSTANCES YES	IF YES, WHICH ONES? STRONG ACIDS AND ALKALIS
REACTIVITY, AND UNDER WHAT CONDITIONS? NOT APPLICABLE	
HAZARDOUS DECOMPOSITION PRODUCTS FIRE IN THE IMMEDIATE VICINITY MAY CAUSE THE DEVELOPMENT OF DANGEROUS VAPORS.	

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
CARCINOGENICITY - IARC NO DATA AVAILABLE	CARCINOGENICITY - ACGIH NO DATA AVAILABLE
REPRODUCTIVE TOXICITY NO DATA AVAILABLE	TERATOGENICITY NO DATA AVAILABLE
EMBRYOTOXICITY NO DATA AVAILABLE	MUTAGENICITY NO DATA AVAILABLE
NAME OF SYNERGISTIC PRODUCTS/EFFECTS NO DATA AVAILABLE	

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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.

DO NOT ALLOW TO PENETRATE INTO SOIL, WATER OR DRAIN

SECTION 14 - TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION

NONE

PIN

NOT APPLICABLE

TDG
NOT APPLICABLE

DOT
NOT APPLICABLE

IMO
NOT APPLICABLE

ICAO
NOT APPLICABLE

SECTION 15 - REGULATORY INFORMATION

WHMIS CLASSIFICATION
NOT APPLICABLE

OSHA
NOT APPLICABLE

SERA
NOT APPLICABLE

TSCA
NOT APPLICABLE

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH ALL THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS 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)