

Millennium Signatures Marking Systems Inc.

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SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION AND COMPANY DETAIL

Product Name: X4R- 900 Neutralizer
Product Code(s): X4R-900
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 offices hours, 8:30am – 4:00pm EST, Monday – Friday, in English.
Fax Number: (905) 639-0909
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:

LIQUIDS: Monoethanolamine (CAS#141-43-5) TLV: 3ppm PEL: 3ppm STEL: 6ppm

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: Avoid breathing product mists. Breathing mists in excess may cause irritation of upper respiratory tract. Persons with chronic respiratory disease may show increased symptoms due to irritation.
Ingestion: May effect persons with existing kidney or liver disease.
Skin contact: Mild irritation may occur.
Eye contact: Mild irritation may occur.

SECTION 4 – FIRST AID MEASURES

Skin contact: Wash with soap and water.
Eye contact: Flush eyes with thoroughly with water for 15 minutes; if irritation continues, consult physician.
Ingestion: Induce vomiting by administering an emetic. Consult Physician.
Inhalation: Remove to source of fresh air.
Always seek medical attention if irritation continues.

SAFETY DATA SHEET

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water fog, dry chemical powder or appropriate foam.
Special fire fighting procedures: If water boils off, use water fog, carbon dioxide, foam, dry chemical.
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: Dilute with water and mop up. Dispose of waste in accordance with all current local, state and national regulations.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in the event of spillage or chemical release: Dilute with water and mop up. Minimize the release of chemical into the environment.
Waste disposal method: Dilute with water and transfer into sewage or waste disposal system which provides air or biological oxidation. Dispose of in accordance with all current local, state and national 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) Contact with strong oxidizers
Other Precautions: None

SECTION 8 – EXPOSURE CONTROLS – PERSONAL PROTECTION

Occupation Exposure Limits: N/A

Personal Protective Equipment:

Respiratory System: (Required only if spraying or misting) Use mechanical filter.
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: Green fluorescent fluid.
Odor: amine odor
Odor Threshold: N/A
pH: 9.1 to 9.5
Boiling Point: 215 Degrees (F)

SAFETY DATA SHEET

Melting/Freezing Point: N/A - Freezing below 32 degrees (F)
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: N/A
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) Contact with strong oxidizers **Hazardous**
Decomposition or By-products: Thermal; oxides of carbon and nitrogen
Hazardous polymerization: WILL NOT OCCUR.

SECTION 11 – TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No IARC: No OSHA: No

The toxicological information for the components is: N/A

Acute effects

Causes mild eye irritation.

Causes mild skin irritation.

Material is irritating to mucous membranes.

May be harmful by ingestion or if contacted with skin.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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 – 511,800ppm

Biological: Oxygen demand (BOD-5) 325,000ppm

SAFETY DATA SHEET

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: 04 May 1987

Changes to Issue: 01 June 2015

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