



Millennium Signatures
MARKING SYSTEMS

www.millenniumsignatures.com
info@millenniumsignatures.com

Emergency Numbers

Canutec: (613) 996-6666
Poison ControlCentre:

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Page 1 of 3

MATERIAL SAFETY DATA SHEET

Section I

Chemical Name: X4R - 412

Formula: Trade Secret

Section II **Hazardous Ingredients/ Identity Information**

Cobalt Nitrate 2% Ammonium Salts 2% Organic Acid 2%
Sulfate Salts 2% Surfactant 1%

Section III **Physical/ Chemical Characteristics**

Boiling Point: 212 Degrees (F) **Specific Gravity:** 1.08

Vapour Pressure (mm Hg) @ 25 Degrees (C) [77 Degrees (F)]: 23.7

Melting Point: N/A

Vapour Density (AIR – 1): N/A **Evaporation Rate:** N/A

Solubility in Water: Complete (100%) (Butyl Acetate – 1)

Appearance: Reddish, Slight Odour

Section IV **Fire and Explosion Hazard Data**

Flash Point: N/A

Flammable Limits: N/A

ph: 5.5

Extinguishing Media: N/A

Spec. Fire Fighting Procedures: N/A

Unusual Fire & Explosion Hazards: N/A

MATERIAL SAFETY DATA SHEET

Section V Reactivity Data

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): With dried solution, cellulosic type materials (wood, cotton), oxidizers

Hazard Polymerization: Will not occur

Hazardous Decomposition or By-Products: None, but surrounding fire may release nitrogen oxide gases

Conditions to Avoid: N/A

Section VI Health Hazard Data

Route(s) of Entry:

Inhalation: N/A

Skin: Y

Ingestion: Y

Health Hazards (Acute & Chronic):

Ingestion: Harmful

Skin and Eyes: Possible serious irritation and allergic reaction

Carcinogenicity: NTP: IARC Monographs: No

OSHA Regulated: No

Signs and Symptoms of exposure:

Ingestion: May cause nausea, vomiting, diarrhea and possible facial discoloration

Skin and Eyes: Irritation

Medical conditions generally aggravated by exposure: Dermatitis may possibly be aggravated

Emergency and First Aid Procedures:

Ingestion: Drink water and contact a physician

Skin and Eyes: Flush thoroughly with water for fifteen minutes; Call a physician.

MATERIAL SAFETY DATA SHEET

Section VII Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled:

Small Spills: Flush with to sewer

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

Waste Disposal: To be performed in compliance with all current local, provincial and federal regulations

Precautions to be taken in handling and storing: Keep containers tightly closed, and keep from freezing (32 degrees [F]). Wash hands thoroughly after handling

Other precautions: None

Section VIII Control Measures

Respiratory Protections (specify type): N/A

Ventilation: Local exhaust is sufficient

Protective gloves: Optional- for sensitive skin

Eye protection: For extra protection, wear safety goggles

Other protective clothing or equipment: Optional- Apron

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