



Millennium Signatures
MARKING SYSTEMS

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Emergency Numbers

Canutec: (613) 996-6666
Poison ControlCentre:

Revised: February 1st, 2008

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MATERIAL SAFETY DATA SHEET

Section I

Chemical Name: 73XNW Black Marking Ink

V.O.C. 741 grams/litre

HMIS CODES: H F R P
2 3 0

Section II

Hazardous Ingredients/ Identity Information

Chemical Names	Occupational Exposure Limits			Vapor Pressure		
	CAS#	OSHA PEL	ACGIH TLV	WT.%	mm Hg	@ Temp
Ethylene Glycol	107-21-1	N/A	50ppm	13%	0.1	@ 68°F
*Proprietary ingredient**		N/A	N/A	31%	0.3	@ 77°F
Isopropyl Alcohol 99%	67-63-0	400ppm skin		33%	33.0	@ 68°F

All substances used in the 73X ink are listed under the Toxic Substance Control Act (TSCA)

Those items preceded by an asterisk (*) are reportable under section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)

**This proprietary ingredient is a member of the Glycol Ether family as defined in Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section III

Physical/ Chemical Characteristics

Boiling Point: 180-395 Degrees (F)

Specific Gravity: 1.0

Weight Per Gallon: 8.34

% Volatile Rate: 81.15

Vapor Density: Heavier than air

Evaporation Rate: Slower than Ether

Solubility in Water: Insoluble

Appearance & Odor: Moderately viscous, Mild alcoholic odor.

Section IV **Fire and Explosion Hazard Data**

Flash Point: 53°F

Method Used: Closed Cup

Flammable Limits in Air by Volume: **Lower: 1.2** **Upper: 23.0**

Extinguishing Media: Alcohol foam, CO₂, dry chemical, water fog. Water spray may be ineffective. Water may be used to cool closed containers to prevent explosion from pressure build up when the containers are exposed to intense heat.

Unusual Fire & Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame.

Section V **Health Hazard Data**

Skin Contact: Can dry and irritate skin

Eye Contact: Mildly irritating

Inhalation: Irritating to the nose and throat; dizziness, headache and nausea

Ingestion: Can cause nausea, vomiting and narcosis. Chronic: can cause kidney damage

Medical Conditions Aggravated by Exposure: Respiratory irritation, dermatitis and nausea.

Emergency and First Aid Procedures:

Eye Contact: Flush immediately with water for 15 minutes. Get medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing. Consult a physician if irritation persists. Do not re-use clothing until cleaned

Inhalation: Remove to fresh air. Restore breathing. Get medical attention.

Ingestion: Drink water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately.

Section VI Reactivity Data

Stability: Stable **Conditions to Avoid:** Heat, sparks and open flame

Incompatibility (Materials to Avoid): Contact with strong oxidizing agents.

Hazard Polymerization: Will not occur

Hazardous Decomposition Products: Thermal decomposition may yield carbon monoxide and carbon dioxide.

Conditions to Avoid: N/A

Section VII Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Avoid eye or skin contact. Place leaking containers in well-ventilated area. Eliminate ignition sources. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean spill, flush area sparingly with water or use an absorbent. Avoid run-off into storm sewers and ditches, which lead to natural waterways. All clean up and disposal should be carried out in accordance with federal and local regulations. If required, local authorities should be notified.

Waste Disposal: Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal or local disposal authorities for approved procedures.

Section VIII SPECIAL PROTECTION PROCEDURES

Respiratory Protections (specify type): Use full-face NIOSH-approved organic vapor cartridge or canister respirator within use limitations of these devices; in all other situations, use self-contained breathing apparatus (SCBA), when concentrations exceed the PEL or ACGIH values as shown in section II.

Ventilation:

Local Exhaust: Recommended when appropriate to control employee exposure.

Protective gloves: Neoprene or rubber

Mechanical (General): Not recommended as the sole means of controlling employee exposure.

Other protective clothing or equipment: For operations where spills or splashing can occur, use impervious body covering and boots. A safety shower and eye bath should be available.

Section IX SPECIAL PRECAUTIONS

Keep liquid away from heat, sparks and open flame. Surfaces that are sufficiently hot may ignite even liquid product in the absence of spark or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone. Vapors may accumulate and travel to ignition sources distant from handling point flash-fire can result. Keep containers tightly closed when not in use. Use adequate ventilation. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near the containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment. Store in cool dry place with adequate ventilation. Keep away from open flames and high temperatures. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before re-use.

Section X TRANSPORTATION REQUIREMENTS

Department of Transportation Classification: Class 3 Ink Flammable Liquid
D.O.T. Proper Shipping Name: Ethyl Alcohol U.N. 1210

*****We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the applications of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.**