

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT INFORMATION

PRODUCT NAME: **73X Black Marking Ink**

DATE: 3/22/11

HMIS: H F R P V.O.C. 741 grams/liter
2 3 0

SECTION II - HAZARDOUS INGREDIENTS

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	400ppm	33%	33.0 @ 68°F

All substances used in the 73X ink are listed in 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 DATA

BOILING POINT: 180 - 395°F	SPECIFIC GRAVITY: 1.0
VAPOR DENSITY: Heavier than air	EVAPORATION RATE: Slower than Ether
WEIGHT PER GALLON: 8.34	% VOLATILE RATE: 81.15
SOLUBILITY IN WATER: Insoluble	APPEARANCE & ODOR: Moderately viscous, Mild alcoholic odor.

SECTION IV - FIRE & 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.

SPECIAL FIRE FIGHTING PROCEDURES & PRECAUTIONS: Water spray may be ineffective. Water may be used to cool closed containers to prevent explosion from pressure buildup 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

Signs & Symptoms of Exposure

EYE CONTACT: Mildly irritating.

SKIN CONTACT: Can dry and irritate skin.

INHALATION: Irritation of 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 FIRST AID PROCEDURES

EYE CONTACT: Flush immediately with plenty of water for 15 minutes. Consult a physician.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing. Consult a physician if irritation persists.

INHALATION: Remove to fresh air. Restore breathing. Treat Symptoms. Consult a physician.

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 acids, alkalis, or oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: May produce carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: 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 that lead to natural waterways. All clean up and disposal should be carried out in accordance with federal, state and local regulations. If required, state and local authorities should be notified.

WASTE DISPOSAL METHOD: 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, state, or local disposal authorities for approved procedures.

SECTION VIII - SPECIAL PROTECTION PROCEDURES

RESPIRATORY PROTECTION: 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 ACGIL values as shown in section II.

VENTILATION:

LOCAL EXHAUST: Recommended when appropriate to control employee exposure.

MECHANICAL (GENERAL): Not recommended as the sole means of controlling employee exposure.

PROTECTIVE GLOVES: Neoprene or rubber.

EYE PROTECTION: Chemical safety goggles.

OTHER PROTECTIVE 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 a 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: **UN 1210, Printing Ink, Flammable, 3, PG II**
D.O.T. Proper Shipping Name: U.N. 1210

Date: 3/22/11

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Read Our Product
Safety Information...And Pass It On