



M A T E R I A L S A F E T Y D A T A S H E E T

24-hour Emergency Phone: 1-800-424-9300
PRODUCT CODE: PG-6-B127

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DIBK	OSHA - 125ppm, ACGIH - 125ppm	108-83-8	1.7	68 F	0% to 1%
POLYALKYLENE GLYCOL	OSHA PEL: 25 PPM, ACGIH TLV: 25 PPM		> 7	68 F	0% to 1%
	TLV (ACGIH); 100 PPM				
	STEL (ACGIH); 150 PPM				
	PEL (OSHA): 100 PPM				

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

3. HAZARD IDENTIFICATION OF THE PRODUCT

May impair fertility. May cause harm to the unborn child. Flammable. Harmful by inhalation, in contact with skin and if swallowed.

Further information is given in section 11.

4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. Consult a physician. Skin Contact: Wash affected area with soap and water. Remove contaminated clothing. Consult a physician. Inhalation: Remove to fresh air. Consult a physician. Ingestion: Drink water to dilute. Do not induce vomiting. Consult a physician.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

Water spray may be ineffective. If water is used, fog nozzles are preferred. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flames. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. Self-contained breathing apparatus should be worn by firefighters.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Evacuate non-essential personnel. Remove all sources of ignition. Ventilate the area. Equip clean-up crew with self-contained breathing apparatus. Dike spill. Cover with sawdust, vermiculite or Fuller's earth. Collect in open containers.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store above 100 degrees F. Store in large quantities only in buildings designed to comply with OSHA 1910.106. Keep containers closed and upright to prevent leakage. Do not store or use near heat, sparks or flames.

OTHER PRECAUTIONS

Avoid prolonged or repeated contact with vapor or spray mist during application or curing.



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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Personal Protection

Respiratory Protection

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the entire time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

Eye Protection

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.

Hand Protection

Nitrile rubber gloves should be worn during mixing and application.

Skin Protection

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. They should however not be applied once exposure has occurred. Petroleum jelly based types such as Vaseline should not be used. All parts of the body should be washed after contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 168.0 F	BOILING RANGE: 168.0 F TO 344.0 F
FLASH POINT ⁰F: 26.00	METHOD USED: TCC
COATING V.O.C.: 410.55 G/L	MATERIAL V.O.C.: 410.55 G/L
SPECIFIC GRAVITY (H2O=1): 1.1987	
VAPOR DENSITY: HEAVIER THAN AIR	
EVAPORATION RATE: SLOWER THAN ETHER	
SOLUBILITY IN WATER: INSOLUBLE	
APPEARANCE AND ODOR: OPAQUE WITH ODOR OF SOLVENT	

10. STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID

Temperatures above maximum storage temperature. Avoid exposure to heat, sparks, or open flames.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

By fire - CO, CO₂, nitrogen oxides.

HAZARDOUS POLYMERIZATION:

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WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

12. ECOLOGICAL INFORMATION

There are no data available on the product itself.

The product should not be allowed to enter drains or water courses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 199/45/EC and is not classified as dangerous for the environment.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses. Wastes and empty containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

14. TRANSPORT INFORMATION

Transport only in accordance with the following regulations:

ADR/RID UN1263 Paint, 3, II

IMDG	Class	3	Subsidiary Class
	Proper Shipping Name	PAINT	
	UN No	1263	
	Ems	F-E, S-E	
	Packaging Group	II	
	Marine Pollutant	No	

ICAO/IATA	Shipping Name	PAINT
	Class	3
	UN No	1263
	Packaging Group	II

15. REGULATORY INFORMATION

In accordance with EC Directive 88/379/EEC and the Chemicals (Hazard Information and Packaging for Supply) Regulations SI /3247/1994 this product is labeled as follows:

Symbol (s)

Toxic

Contains:



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R. Phrases:

May impair fertility.
May cause harm to the unborn child.
Flammable.
Harmful by inhalation, in contact with skin and if swallowed.

S. Phrases:

Attention - Avoid Exposure - obtain special instructions before use.
Do not breathe vapour/spray.
Wear suitable protective clothing, gloves and eye/face protection.
Use only in well-ventilated areas.

P. Phrases:

Restricted to professional users.

16. OTHER INFORMATION

The information contained herein is based on data considered accurate, but no warranty is expressed or implied. Users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combinations. Although hazardous materials are listed, we cannot guarantee these are the only ones that exist.

MATERIAL SAFETY DATA SHEET

Independent Ink Incorporated
14705 South Avalon Boulevard
Gardena, California 90248

Phone: (310) 523-4657

CHEMTREC: (800) 424-9300
For Chemical Emergency only

SECTION I - PRODUCT INFORMATION

PRODUCT NAME: 73X Black Marking Ink

DATE: 3/22/10

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: Printing Ink, Flammable Liquid, Packaging Group II
Class: 3

D.O.T. Proper Shipping Name: U.N. 1210

Date: 3/22/10

DISCLAIMER: While Independent Ink Inc. believes that the data set forth in this sheet is accurate; Independent Ink Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon.

**BE SAFE
Read Our Product
Safety Information...And Pass It On**