INDEPENDENT INK™ INCORPORATED

Safety Data Sheet
Product ID: 73X Black

Version 3.0
Date February 10, 2021

CHEMTREC: (800) 424 9300
For Chemical Emergency Only

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFICATION

Product Name 73X Black Marking Ink

1.2 RELEVANT IDENTIFIED USES OF THE PRODUCT

Product Use Industrial applications: Marking Ink

1.3 SUPPLIER

Independent Ink Incorporated

1.2 EMERGENCY TELEPHONE NUMBER(S)

Medical	Poison Control Center	USA	(800) 222 1222
Transportation	CHEMTREC	USA	(800) 424 9300

SECTION 2: Hazards Identification

2.1 CLASSIFICATION OF THE PRODUCT

H225	Flammable Liquid 2	Highly flammable liquid and vapor
H302	Acute Toxicity 4 (Oral)	Harmful if swallowed
H319	Eye Irritant 2A	Causes serious eye irritation
H336	STOT SE 3	May cause drowsiness and dizziness
H373	STOT RE 2	May cause damage to organ (kidney) through prolonged or repeated exposure

2.2 LABEL ELEMENTS

DANGER WARNING



P210 Keep away from heat/sparks/open flames/hot surfaces/ No Smoking.
P233 Keep container tightly closed
P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/protective clothing/eye protection/face protection

P260 Do not breathe dust/ fume/gas/mist/vapor/spray
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P301 + P312 IF SWALLOWED: Call a POISON CENTER/ Doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell
P303 + P361 + P353 IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse Skin with water/shower
P304 + P340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol resistant-foam for extinction.
P403 + P233 Store well in a well-ventilated place. Keep container tightly closed
P405 Store locked up
P501 Dispose of contents/container to an approved waste disposal facility

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product Name	CAS N0.	EC No.	%	GHS Classification
Ethylene Glycol	107-21-1	203-473-3	10-15	Acute toxicity Oral – Category 4 Specific Target Organ Toxicity (Repeated Exposure) – Category 2 Target Organ Kidney
Proprietary Ingredient			29-33	This is NOT a Hazardous Substance according to Regulation EC No. 1272/2008. This substance is NOT considered Hazardous Substance by the US OSHA Hazard Communication Standard 29 CFR 1910.1200.
Isopropyl Alcohol	67-63-0	200-661-7	30-35	Flammable Liquid – Category 2 Serious Eye Damage/Irritation Category – 2A Specific Target Organ Toxicity (Single Exposure) – Category 3 Target Organ: Central Nervous System

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

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: Do not give liquids if victim is unconscious or drowsy. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Call a Poison Control Center or

physician.

SECTION 5: FIRE FIGHTING MEASURES

5.1 PHYSICAL CHARACTERISTICS

FLASH POINT: 12 °C / 53 °F METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 1.2 UPPER: 23.0

5.2 EXTINGUISHING MEDIA

EXTINGUISHING MEDIA: Alcohol foam, CO2, dry chemical, water fog. DO NOT use a direct stream of water. Product will float and can be re-ignited on surface of water.

SPECIAL FIRE FIGHTING PROCEDURES & PRECAUTIONS:

Clear fire area of unprotected personnel. Do not enter confined fire space without using self-contained breathing apparatus and protective clothing.
Keep run-off water out of sewers and water sources. If risk of water pollution occurs, notify appropriate authorities.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup that could result in container rupture.
Vapors are heavier than air and may spread near ground to sources of ignition. May explode when heated or when exposed to flames or sparks. May form explosive or toxic mixtures with air.

SPECIFIC HAZARDS: Fire creates toxic gases/vapors/fumes of Carbon Monoxide (CO). Carbon Dioxide (CO2).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Avoid eye or skin contact. Place leaking containers in a 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 cleanup and disposal should be carried out in accordance with federal, state and local regulations. If required, state and local authorities should be notified.

6.2 WASTE DISPOSAL METHOD:

Recovered liquids may be sent to a licensed recycler 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 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatible materials. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

Do not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death.

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 turns 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 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 EXPOSURE GUIDELINES

Chemical Name	OSHA PEL TWA 8 HRS		ACGIH TLV STEL		Notes
	ppm	mg/m³	ppm	mg/m³	
Ethylene Glycol	-	-		100	Ceiling, aerosol only
Isopropyl Alcohol	400	980	400	980	F;R11 Xi;R36 R67

8.2 PERSONAL PROTECTION





Ventilation: Use only with adequate ventilation to keep employee exposure below any recommended or statutory limits. Use explosion proof ventilation equipment.

Hygiene: Wash hands, forearms and face thoroughly after handling chemical products and before eating. Remove contaminated clothing before reusing. Place eyewash stations and safety showers close to the location of chemical storage and use.

Eye Protection: Use approved safety goggles or splash shields when exposed to liquid splashes, mists, gases or dust.

Hand Protection: Wear chemical resistant, impervious gloves when handling chemical products.

Respiratory Protection: Use an air purifying or air fed respirator if exposure will result in exposure in excess of allowable limits. Ensure that the respirator's safe working rating exceeds the expected exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 EXPOSURE GUIDELINES

PHYSICAL STATE	Liquid	pH	Not determined
FLASH POINT	12°C /53°F	EXPLOSION LIMITS	Lower 1.2 Upper 23.0
BOILING POINT	172°C / 340°F	SPECIFIC GRAVITY	1.0
VAPOR DENSITY	4.07	EVAPORATION RATE	Slower than Ether
VAPOR PRESSURE (k Pa)	-- @ 20°C	% VOLATILE RATE	81.15%
WEIGHT PER GALLON	8.34 Lbs.	APPEARANCE & ODOR	Black Liquid. Alcohol odor
SOLUBILITY IN WATER	Insoluble	VOC	741 grams/Liter

9.2 OTHER EXPOSURE GUIDELINES

9.3 ENGINEERING MEASURES Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

SECTION 10: STABILITY AND REACTIVITY

10.1 STABILITY Stable under normal temperature conditions.

10.2 REACTIVITY

10.3 POSSIBILITY OF HAZARDOUS REACTIONS Hazardous reactions will not occur under normal storage conditions and use.

10.4 CONDITIONS TO AVOID Heat, flames and sparks.

10.5 INCOMPATIBLE MATERIALS None

10.6 HAZARDOUS DECOMPOSITION PRODUCTS Hazardous decomposition products should not be produced under normal conditions. Fire creates toxic gases and vapors of Carbon Monoxide (CO) and Carbon Dioxide (CO_2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 ACUTE TOXICITY

Chemical Name	Result	Species	Dose	Exposure

Ethylene Glycol	LD50 Oral LD50 Oral LD50 Dermal Draize Test Eye	Mouse Rat Rabbit Rabbit	5500 mg/kg 4700 mg/kg 9530 uL/kg 500mg	- - - 24 hours; Mild
Isopropyl Alcohol	LC50 Inhalation LC50 Inhalation LC50 Inhalation LD50 Oral LD50 Oral LD Oral LD50 Dermal	Mouse Rat Rat Mouse Rabbit Rat Rabbit	53000 mg/m^3 16000 ppm 72600 mg/m^3 3600 mg/kg 6410 mg/kg 5045 mg/kg 12800 mg/kg	 8 hours

11.2 CHRONIC TOXICITY

Inhalation of vapors in high concentration may cause irritation of the respiratory system. Concentration above the permissible limits in the workplace may cause dizziness, mild intoxication and headache. Symptoms include headache, dizziness, fatigue, muscular weakness and drowsiness. In extreme cases loss of consciousness may occur.

11.3 IRRITATON/CORROSION

Skin: Causes mild irritation. Repeated exposure may cause skin cracking or dryness.
Eyes: Causes serious eye damage
Respiratory: Not classified. No known significant effects or critical hazards.

11.4 SENSITIZATION

Skin: Not classified. No known significant effects or critical hazards.
Respiratory: Not classified. No known significant effects or critical hazards.

11.5 MUTAGENICITY Not determined

11.6 CARCINOGENICITY

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol	Not listed	Not listed	Not listed	Not listed
Isopropyl Alcohol	Not listed	Not listed	Not listed	Not listed

ACGIH: American Conference of Governmental Industrial Hygienists
IARC: International Agency for Research on Cancer
NTP: National Toxicity Program

11.7 REPRODUCTIVE TOXICITY Not determined.

11.8 DEVELOPMENTAL TOXICITY Not determined

11.9 TERATOGENIC Not determined

11.10 TARGET ORGAN EFFECTS Kidneys, Central Nervous System, Eyes, Liver, Reproductive System, Respiratory System, Skin,

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical Name	Result	Species	Exposure
Ethylene Glycol	LC50 41000 mg/L LC50 46300 mg/L	Rainbow Trout Daphnia (Water Flea)	96 hours 48 hours
Isopropyl Alcohol	Acute LC50 >1000 ppm Acute LC50 >1000 ppm Acute LC50 8970-9280 ppm	Fathead Minnow Daphnia Golden Orfe	96 hours 96 hours 48 hours

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste Disposal Methods Dispose of the waste according to local regulations. Waste should not be released into the environment. Waste can be incinerated or disposed of in a landfill when in accordance with local regulations. This material, as supplied, is a hazardous waste according to Federal regulations (40 CFR 261).
Dispose of surplus and non-recyclable product via a licensed waste disposal contractor

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken for local recycling, recovery or waste disposal.

Special Precautions None

SECTION 14: TRANSPORT INFORMATION

	UN	IMDG	IATA	US DOT
Number	UN1210	UN1210	UN1210	UN1210
sUN Proper Shipping Name	Printing Ink	Printing Ink	Printing Ink	Printing Ink
Transport Hazard Class	3 	3 	3 	3 
Packaging Group	II	II	II	II
Environmental Hazards	No	No	No	No
Special Precautions for User	Not available	Not available	Not available	Not available
Additional Information	None	None	None	None

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SECTION 15: REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TSCA	United States Substances Control Act Section 8(b) Inventory	Complies
DSL/NDSL	Canadian Domestic Substances List / Non-Domestic Substances List	Complies

US FEDERAL REGULATIONS

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal regulations, Part 372.

Chemical Name	CAS Number
Ethylene Glycol	107-21-1
Isopropyl Alcohol	67-63-0
Proprietary ingredient*	Proprietary

SARA 311/312 HAZARD CATEGORIES

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

*The 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)

CLEAN WATER ACT

This product does not contain any substances regulated as pollutants to the Clean Water Act (40CFR 122)

CERCLA Comprehensive Environmental Response Compensation and Liability Act (CERCLA 40CFR 302) or the Superfund Amendments and Reauthorization Act (SARA 40CFR 355).

NATIONAL FIRE PROTECTION ASSOCIATION (USA)

HEALTH 2
FLAMMABILITY 3
REACTIVITY 0



U.S. STATE REGULATIONS

California Proposition 65 This product contains the following Proposition 65 chemicals:

Chemical Name	CAS Number	California Proposition 65
Ethylene Glycol	107-21-1	Not listed
Isopropyl Alcohol	67-63-0	Not listed

U.S. STATE RIGHT TO KNOW REGULATIONS

Chemical Name	CA	MA	PA	MN	RI	NJ
Ethylene Glycol	X	X	X	X		X
Isopropyl Alcohol	X	X	X	X		X

INTERNATIONAL REGULATIONS

TARIFF CODE HARMONIZED SYSTEM EU …00.00
3215.11 Printing Ink White USA
…00.60

CANADA This product has been classified in accordance with the hazard criteria of the Controlled Products regulations (CPR) and the MSDS contains all the information required by the CPR.


Irritant


Highly Flammable

RISK PHRASES

R11	Highly Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36/38	Irritating to eyes and skin
R52/53	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapors may cause drowsiness and dizziness

SAFETY PHRASES

S7	Keep container tightly closed
S9	Keep container in a well-ventilated space
S16	NO SMOKING: Keep away from sources of ignition
S24	Avoid contact with eyes
S25	Avoid contact with eyes
S26	In case of contact with eyes, rinse immediately with water for 15 minutes. Seek medical attention
S33	Take precautions against static discharges
S37/39	Wear suitable gloves and eye/face protection
S46	If swallowed seek medical advice immediately
S51	Use only in well ventilated places
S60	This material and its container must be disposed of as hazardous waste

SECTION 16: OTHER INFORMATION

DISCLAIMER: While Independent Ink Incorporated (III) believes that the data set forth in this sheet is accurate and represents the best information currently available to III. Independent Ink Incorporated makes no warranty, expressed or implied, with respect thereto and expressly disclaims all liability for reliance thereon.

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