

MATERIAL SAFETY DATA SHEET (1/2)

MSDS No. B-1017

Section 1. Product Identification

Product:

UX-22BC/FO-21BC/UINK-2010AXZZ (Black Print Cartridge)

Section 2. Supplier's Name and Address

Sharp Corporation

22-22 Nagaike-cho, Abeno-ku, Osaka, Japan

Local suppliers are listed below. Please contact the nearest supplier for additional information.

(Country)	(Name and Telephone Number)
U.S.A.	Sharp Electronics Corporation Telephone number for information: 1-800-237-4277 Emergency telephone number : 1-800-255-3924
Canada	Sharp Electronics of Canada Ltd. Telephone number for information: 905-890-2100 Emergency telephone number : 1-800-255-3924

Section 3. Ingredients

Ingredients	CAS No.	Proportion	OSHA PEL	ACGIH TLV	Other Limits
Black dye (NJ TSN 80100451-5009)		1 - 3%	Not listed	Not listed	None
Black dye (NJ TSN 80100451-5010)		(TOTAL OF BOTH)	Not listed	Not listed	None
Glycerol	56-82-5	2 - 7%	15mg/m	10mg/m	None
Organic solvent (NJ TSN 80100451-5013)		1 - 2%	Not listed	Not listed	None
Triethanolamine	102-71-6	0.5 - 1%	Not listed	5mg/m	None
Water		Balance	-	-	-

Section 4. Hazardous Identification (Emergency Overview)

When used as intended according to instructions, no adverse short term or long-term effects are expected to occur.

Section 5. Health Hazard Data

Route(s) of Entry :	Inhalation?	Skin?	Ingestion?
	Possible, but unlikely	Yes	Yes

Health Hazards : This material does not represent a health hazard.
Acute oral toxicity -- LD₅₀ of this ink is over 5,000mg/kg.

Carcinogenicity : Not listed as a carcinogen or potential carcinogen**Chronic Effect :** Ink is not expected to be chronically toxic.**Signs and Symptoms of Exposure :** Ink stains on skin or mucus membranes such as the mouth, eyes and nose which may cause discomfort.**Medical Conditions Generally Aggravated by Exposure :** None known at levels of intended use of the ink.**Emergency and First Aid Procedures :**

- Inhalation --- If mist is inhaled, respiratory tract irritation may occur. Remove person to fresh air and, if breathing difficulty occurs, consult medical personnel.
- Ingestion --- Rinse out mouth with plenty of water. Dilute stomach contents with a small glass of water or milk. Do not induce vomiting unless instructed by a physician.
- Skin --- Remove contaminated clothing. Wash with soap and water. If irritation develops and persists, consult medical personnel.
- Eye --- Immediately flush eyes with water for at least 15 minutes. If irritation develops and persists, consult medical personnel.

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Section 6. Physical Chemical Characteristics

Boiling Point	: 97°C	Odor	: Faint odor
Melting Point	: 1°C	Specific Gravity	: 1.03 (H ₂ O = 1)
Vapor Pressure	: Not applicable	Solubility in Water	: Fully Miscible
Vapor Density	: 1 (Air =1)	PH	: 8.55 - 8.85
Evaporation Rate	: 3	Viscosity	: 1.15-1.27 CentiStokes
Appearance	: Liquid	Color	: Black

Section 7. Fire and Explosion Data

Flash Point (Method Used)	: Not applicable.
Ignition Temperature	: Not applicable.
Flammable Limits	: (LEL): Not applicable. (UEL): Not applicable.
Extinguishing Media	: Dry chemical, carbon dioxide, foam or water
Special Fire Fighting Procedure	: Avoid inhalation of smoke. Wear NIOSH approved self contained breathing apparatus and full protective gear if a large amount of the material is involved.
Unusual Fire and Explosion Hazard	: No unusual fire or explosive hazards are known for this product.
Sensitivity to Mechanical Impact	: None.
Sensitivity to Static Charge	: No data

Section 8. Reactivity Data

Stability	: Stable
Incompatibility (Material to Avoid)	: None
Hazardous Decomposition	: Products of combustion are oxides of carbon, acid gasses, and low molecular weight organics. Avoid inhalation of the smoke.
Hazardous Polymerization	: Will not occur.

Section 9. Precautions for Safe Handling and Use

Personal Protection Information (Respiratory, Eye Protection and Protective Glove)	: None required
Engineering Control / Ventilation	: Mechanical room ventilation is recommended.
Work / Hygienic Practice	: Contact should be minimized as with any non-toxic substance.

Steps to be taken in case of Spill or Leak : Absorb small ink spills with a cloth or paper towels and place in a container for disposal. For large spills, dike around spill with absorbant material and transfer diking material to suitable disposal container. Ventilate and wash area with water after removal of material. Keep waste from sewers, watershed, and waterways.

Waste Disposal Method : Waste material may be disposed under conditions which meet all federal, state and local environmental regulations.

Section 10. Regulatory Information

NFPA Rating (U.S.A.)	: No data is available.
WHMIS Legislation (Canada)	: Not regulated under WHMIS.
Transport Information	: Not regulated.
UN No.	: No data is available.

Section 11. Other Information

KEEP OUT OF REACH OF CHILDREN. Material should be stored in a cool, dry place. This information relates only to the specific material designated as supplied by the manufacturer. This information is supplied to us by the manufacturer and Sharp offers no warranties as to its accuracy and accepts no responsibilities for any typographical errors which may appear on these sheets. It is the responsibility of the user to determine the suitability of this product for each particular use.