

S H A R P

Date Revised: August 7, 1998

Date Issued: Feb. 16, 1998

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

<u>Ingredients</u>	<u>CAS No.</u>	<u>Proportion</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits</u>
Black dye (NJ TSRN 80100451-5008-P)		1 - 3%	Not listed	Not listed	None
Glycerol	56-82-5	3 - 7%	15mg/m ³	10mg/m ³	None
Tetraethylene glycol	112-60-7	1 - 2%	Not listed	Not listed	None
Triethanolamine	102-71-6	0.5 - 2%	Not listed	5mg/m ³	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?

Possible, but unlikely

Skin?

Yes

Ingestion?

Yes

Health Hazards : This material does not represent a health hazard.
Acute oral toxicity — LD₅₀ of this ink is over 2,500mg/kg.

Carcinogenicity : Not listed as a carcinogen or potential carcinogen

Chronic Effect : No adverse chronic effects are known.

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

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.
- 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	: 230°C*	Specific Gravity	: 1.03 (H ₂ O = 1)
Vapor Pressure	: <0.1 psi (excluding water)	Solubility in Water	: Water soluble
Vapor Density	: Not available	PH	: 8.5 - 8.8
Evaporation Rate	: 1.4 ug/s @ 128°C*	Viscosity	: Not available
Appearance	: Liquid	Color	: Black
Odor	: Faint odor		

Section 7. Fire and Explosion Data

Flash Point (Method Used)	: >210°F*
Ignition Temperature	: Autoignition >600°F
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 self contained breathing apparatus and full protective gear if a large amount of the material is involved.
Unusual Fire and Explosion Hazard	: None.
Sensitivity to Mechanical Impact	: None
Sensitivity to Static Charge	: None

Section 8. Reactivity Data

Stability	: Stable
Incompatibility (Material to Avoid)	: None
Hazardous Decomposition	: Products of combustion are oxides of carbon, organic acids, 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	: Inhalation should be minimized as with any non-toxic dust.

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)	: No data is available.
Transport Information	: Not regulated
UN No.	: No data is available

Section 11. Other Information

Some information presented is based on data gathered for the ingredients. 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.