

S H A R P

Date Revised: _____

Date Issued: Apr. 25, 2006

MATERIAL SAFETY DATA SHEET (1/3)

MSDS No. B-1029

Section 1. Product and Company Identification

Product Name : Ink cartridge of UX-C80B

Supplier Identification : Sharp Corporation

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

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

(Area)	(Country)	(Name and Telephone Number)
North America	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 2. Ingredients

Ingredients	Cas No.	Proportion	OSHA PEL	ACGIH TLV
Carbon Black	1333-86-4	1-5	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA
Acrylic Terpolymer	Trade Secret(#)	0.1-2	None	None
Water Soluble Organic Solvents	Trade Secret(#)	10-20	None	None
Hydroxylated Alkane NJTSRN 80100451-5004	Trade Secret(#)	1-10	None	None
Water	7732-18-5	60-78	None	None

: Supplier's confidential information

Section 3. Hazardous Identification

The following information from our supplier is based on testing of the product as a whole and/or characteristics of components.

Hazard Information : Primary Routes of Exposure: Ingestion, skin contact.

Inhalation : If ink mist is inhaled, respiratory tract irritation may occur. Exposure not probable with intended use.

No adverse chronic effects known at intended level of use.

Skin Contact : Not an irritant. Exposure not probable with intended use. Not a dermal sensitizer.

Eye Contact : Not an irritant. Exposure not probable with intended use.

Ingestion : Low acute oral toxicity. Exposure not probable with intended use.

Section 4. First-Aid Measures

Inhalation: If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash with soap and water. Should irritation occur, seek medical attention.

Eye Contact: Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes.

If irritation develops and persists, seek medical attention.

Ingestion: Immediately wash mouth out with plenty of water. Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Aggravated Conditions : None known

Notes to Physician : No specific antidote.

Section 5. Fire-Fighting Measures

Flash Point/Range (°C) : Not applicable

Autoignition Temperature (°C) : Not determined

Flammable Limits in Air UEL : Not determined

Flammable Limits in Air LEL : Not determined

Extinguishing Media : Carbon dioxide, water spray or fog, dry chemical or foam

Hazardous Combustion Products : Carbon monoxide, carbon dioxide, unidentified organics

Special Exposure Hazards : None known

Special Protective Equipment : NIOSH approved self contained breathing apparatus may be required if a large number of cartridges are involved.

NFPA Rating : Health: 1 Flammability: 0 Reactivity: 0

HMIS Classification : Health: 1 Flammability: 0 Reactivity: 0

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MATERIAL SAFETY DATA SHEET (2/3)

MSDS No. B-1029

Section 6. Accidental Release Measures

Personal Precautionary Measures : None required for intended use in printer.
Environmental Precautionary : Unless specifically permitted for disposal, keep waste out of sewers, watersheds, and waterways.
Procedure for Cleaning/ Absorption : Absorb small spills with cloth or paper towels or other suitable material. Place in container for disposal. For large spills, dike around spill with absorbent material. Wash spill site with soap and water after material pickup is complete. Disposal is subject to federal, state, local, or provincial regulations.

Section 7. Handling and Storage

Handling : To avoid damage to cartridge and accidental contact with ink
KEEP OUT OF REACH OF CHILDREN.
Storage : Store in a cool, dry place.

Section 8. Exposure Control/Personal Protection

Engineering Controls : None required.
Respiratory Protection : None required for intended use in printer.
Gloves : None required for intended use in printer.
Skin Protection : None required for intended use in printer.
Eyes : None required for intended use in printer.

Section 9. Physical and Chemical Properties

Physical State:	Cartridge contains liquid ink	Pressurized:	No
Color :	Black	pH:	7.0-8.5
Odor:	Faint	Specific Gravity:	Approx. 1.0
Solubility in Water:	Fully Miscible	Specific Gravity:	Approx. 1.0

Section 10. Stability and Reactivity

Chemical Stability : Stable
Hazardous Polymerization : Will not occur
Conditions to Avoid : None known
Materials to Avoid : None known
Hazardous Decomposition Products : Carbon monoxide, carbon dioxide, unidentified organics
Additional Guidelines : None

Section 11. Toxicological Information

Primary Routes of Exposure : Ingestion, skin contact.
Ingestion : Low acute oral toxicity. Exposure not probable with intended use. Based on component characteristics, gastrointestinal, liver, kidney, and CNS effects are possible if large quantities of ink are ingested.
Acute Toxicity Oral Rat LD50(mg/kg) : >2000
Inhalation : Low acute inhalation toxicity. Pure carbon black, a minor component of this product, has been listed by IARC as a group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate carbon black. Toner is not listed by IARC, NTP, or OSHA.
Aggravated Conditions : None known
Carcinogenicity Comment : Neither this product nor any of its components present above 0.1% are listed by IARC, NTP, or OSHA as known carcinogens.

Section 12. Ecological Information

Mobility : Not determined
Persistence : Not determined
Bioaccumulative : Not determined
Other Information : None

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MSDS No. B-1029

Section 13. Disposal Consideration

Waste Disposal:

This product is not a listed hazardous waste in accordance with Federal Regulation 40 CFR Part 261. If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material has been contaminated and should be classified as a hazardous waste. Disposal is subject to local, state and federal regulations.

Section 14. Transport Information

DOT Status :	Not classified as a hazardous material or substance under US DOT.	DOT Reportable Quantity :	Not applicable
DOT Shipping Name :	Not applicable	DOT Packing Group :	Not applicable
Hazard Class :	Not applicable		

Section 15. Regulatory Information

TSCA (USA) All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.

SARA / EPCRA (USA) : None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302 : Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.

California Proposition 65 : This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm - California Proposition 65.

DSL (Canada) : All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.

EINECS (Europe) : All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.

ENCS (Japan) : All ingredients are listed on the Japanese Existing and New Chemical Substances (ENCS) list, have been registered, or are exempt.

AICS (Australia) : All ingredients are listed in Australian Inventory of Commercial Substances (AICS), or are registered in Australia.

ECL (Korea) : All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.

WHMIS Hazard Class (Canada) : Not a WHMIS controlled product.

Section 16. Other Information

Reference : IARC(1996): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp.149-261
H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats.
Fundamental and Applied Toxicology 17, pp.280-299.

Restrictions : 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. The information on this data sheet represents best opinion as to the proper use in handling of this product under normal conditions. However, all materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist. It is the responsibility of the user to determine the suitability of this product for each particular use.

Revision Information :

2006/Apr./25 Not applicable in this time due to new issue.