

Date Revised : Jul. 31, 2002  
 Date Issued : May 1, 2000  
 MSDS No. K-90021

### 1.PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : AJ-T21B (Black Ink)

**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 Sharp Plaza, Mahwah, NJ 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
Oceania	Australia	Sharp Corporation of Australia PTY. Ltd. No1 Huntingwood Drive Huntingwood Blacktown N.S.W. Telephone number for information : 1300-13-50-22
Europe	Germany	Sharp Electronics (Europe) GMBH Sonninstrasse 3, 20097 Hamburg Telephone number to access MSDS : 040-2376-2185 For more information : 040-2376-2613
	United Kingdom	Sharp Electronics (U. K.) Ltd. Telephone number for information : 08705-274-277
	France	Sharp Electronics France S.A. Telephone number for information : 01-49-90-34-00
	Austria	Sharp Electronics GMBH Telephone number for information : 01-727-19-0
	Italy	Sharp Electronics (Italy) S.P.A. Telephone number for information : 02895951
	Spain	Sharp Electronics (Espana) S.A. Telephone number for information : 93-581-97-00
	Netherlands	Sharp Electronics Benelux B.V. Telephone number for information : 30-6359500
	Sweden	Sharp Electronics Nordic AB Telephone number for information : 08-634-36-00
	Switzerland	Sharp Electronics(Schweiz)AG Telephone number for information : 01-846-6111
Middle East	U.A.E.	Sharp Middle East FZE P.O.Box 17115 Jebel Ali, Dubai Telephone number for information : 04-815311

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### 2.COMPOSITION / INFORMATION ON INGREDIENTS

Substance[ ]	Preparation[X]					
<u>Ingredient</u>	<u>CAS No.</u>	<u>Proportion</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>MAK-TWA</u>	<u>NOHSC-TWA</u>
Water	7732-18-5	10-30%	Not listed	Not listed	Not listed	Not listed
Sulfolane* <sup>1</sup>	126-33-0	10-20%	Not listed	Not listed	Not listed	Not listed
Acetyethanolamine	142-26-7	10-20%	Not listed	Not listed	Not listed	Not listed
Butyl Carbitol* <sup>2</sup>	112-34-5	10-15%	Not listed	Not listed	Not listed	Not listed
Black Dye 1, liquid	Trade Secret* <sup>3</sup>	30-40%	Not listed	Not listed	Not listed	Not listed
Black Dye 2, liquid	Trade Secret* <sup>4</sup>	5-10%	Not listed	Not listed	Not listed	Not listed

\*<sup>1</sup> EC No. : 204-783-1, Symbol letter : Xn, R Phrase : R22

\*<sup>2</sup> EC No. : 203-961-6, Symbol letter : Xi, R Phrase : R36

\*<sup>3</sup> US PMN No. : P-90-390.

\*<sup>4</sup> NJ Trade Secret Registration Number : 489909-5060PCH.

### 3.HAZARDS IDENTIFICATION

#### Most Important Hazards and Effects of the Products

May cause eye irritation.

Prolonged or repeated contact may cause skin irritation.

**Specific Hazards** : None

**Directive 1999/45/EC(Europe)** : Not classified as dangerous

### 4.FIRST-AID MEASURES

<b>Route(s) of Entry :</b>	<b><u>Inhalation?</u></b>	<b><u>Skin?</u></b>	<b><u>Ingestion?</u></b>
	Not applicable	Yes	Yes

**Inhalation** : Remove to fresh air. If symptoms occur, consult medical personnel.

**Skin Contact** : Wash with soap and water for 15 minutes or until particle is removed.  
 If irritation does occur, consult medical personnel.

**Eye Contact** : Flush eyes immediately with water for 15 minutes. If irritation does occur, consult medical personnel.

**Ingestion** : Rinse with water and drink several glasses of water. If irritation or discomfort does occur, consult medical personnel.

### 5.FIRE-FIGHTING MEASURES

**Extinguishing Media** : Water, CO<sub>2</sub>, foam and dry chemicals

**Special Fire Fighting Procedures** : None

**Fire and Explosion Hazards** : None

### 6.ACCIDENTAL RELEASE MEASURES

**Personal Precautions** : None

**Environmental Precautions** : None

**Methods for Cleaning Up** : Wipe off with paper or cloth. Wash to waste with water.

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**7.HANDLING AND STORAGE**

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**Handling**

Technical Measures : None  
Precautions : None  
Safe Handling Advice : Avoid prolonged or repeated skin contact.  
Avoid transfer to eyes.

**Storage**

Technical Measures : None  
Storage Conditions : Store in packaging supplied. Keep out of the reach of children.  
Incompatible Products : None

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**8.EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Engineering Measures**

Ventilation : None required with intended use.

**Exposure Limit Values**

None assigned

**Personal Protective Equipment**

Under normal use of the ink cartridge, there is no need to use gloves and eye shields.  
Standard eye and skin protection for laboratory chemical safety is required.

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**9.PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

Physical State : Liquid                      Color : Blue                      Odor : Slight odor

**Ph** : 6 - 9

**Boiling / Melting Point** : 95 / Not applicable

**Flash Point(°C)** : > 96, Not flammable

**Ignition Point(°C)** : Not applicable

**Vapor Pressure(mmHg)** : Not determined

**Specific Gravity(water=1)** : ~ 1

**Solubility in Water** : Soluble

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**10.STABILITY AND REACTIVITY**

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**Stability** : Stable

**Hazardous Reactions** : None

**Conditions to Avoid** : None

**Materials to Avoid** : None

**Hazardous Decomposition Products** : Oxides of carbon / nitrogen

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**11.TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**

Ingestion(oral) : LD<sub>50</sub> > 2000mg/kg (Estimated from the data of constituent components)

Dermal : No data

Inhalation : No data

Eye irritation : May cause eye irritation.

Skin irritation : Prolonged or repeated contact may cause irritation.

Skin sensitizer : No data

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**Mutagenicity** : Negative (Estimated from the data of constituent components)  
**Carcinogenicity** : No ingredient is listed carcinogen according to IARC, ACGIH, OSHA and NTP criteria.  
**Chronic Effect** : None present.

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**12.ECOLOGICAL INFORMATION**

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**Ecotoxicology** : Presents little or no hazard to the environment.  
**Environmental Fate** : No information available.  
**Environmental Hazard Values** : No information available.

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**13.DISPOSAL CONSIDERATIONS**

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**Waste from Residues** : This material is not a hazardous waste according to Federal Regulation 40 CFR 261 when disposed. Waste material may be dumped or incinerated under conditions which meet all federal, state and local environmental regulations.  
**Contaminated Packaging** : Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

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**14.TRANSPORT INFORMATION**

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UN Classification : None  
Not classified as hazardous for transport.

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**15.REGULATORY INFORMATION**

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US Information  
TSCA(Toxic Substances Control Act) :  
All chemical substances in this product comply with all applicable rules or order under TSCA.  
EU Information  
1999/45/EC and 67/548/EEC  
Symbol & Indication : Not required  
R-Phrase : Not required

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**16.OTHER INFORMATION**

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NFPA Rating (USA) : Health=0 Flammability=1 Reactivity=0  
WHMIS Legislation (Canada) : This product is not a controlled product.  
List of R phrases : R22 : Harmful if swallowed  
R36 : Irritating to eyes

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The information on this data sheet represents our current data and 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.

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