

brother

## MATERIAL SAFETY DATA SHEET

LC01C  
LC02C  
LC04C

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name LC01C (Ink cartridge for MFC-7000FC and MFC-7200FC)  
Product Code ZA0041001

This product is water based ink in a container.  
All components in ink are listed in EPA TSCA Inventory.

Manufacturer **BROTHER INDUSTRIES, LTD.**  
1-1-1, Kawagishi-cho, Mizuho-ku, Nagoya 467, JAPAN  
Telephone Number for information +81-52-824-2554

Supplier **BROTHER INTERNATIONAL CORPORATION**  
Vantage Court, 100 Cottontail Lane, Somerset, NJ 08875-6714, U.S.A.  
Telephone Number for Information 908-356-8880  
Emergency Telephone Number 908-356-8880

(Information of the suppliers in Canada and in Australia are showed in section 13.)

Date of Preparation: April 25, 1997 MSDS #UMF01C

### 2. HAZARDOUS INGREDIENTS

<u>INGREDIENT NAME</u> <u>CAS#</u>	<u>EXPOSURE LIMITS</u>	<u>CONCENTRATION(% by wt)</u>
Glycerol 56-81-5	OSHA PEL : (as mist) Total dust TWA 10mg/m <sup>3</sup> Respirable fraction TWA 5mg/m <sup>3</sup> ACGIH TLV : (as mist) Total dust TWA 10mg/m <sup>3</sup>	<30

Remaining ingredients are considered non-hazardous.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Ink in cartridge is dark blue liquid with slight odor.  
Keep out of reach of children.  
Ink poses little or no immediate hazard if spilled Ink.

#### POTENTIAL HEALTH EFFECTS

EYE CONTACT : Ink may cause slight irritation.  
SKIN CONTACT : Prolonged exposure to Ink may cause slight irritation.  
INGESTION : A amount of Ink that may be swallowed during normal use is not likely to cause injury.  
INHALATION : Excessive vapor that is caused by heating ink may cause irritation of respiratory tract.

#### CHRONIC EFFECTS / CARCINOGENICITY :

Specific data are not available. All ingredients of ink are not listed by IARC monographs, NTP, and OSHA regulated.

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#### 4. FIRST AID MEASURES

EYE CONTACT : Flush immediately with running water for at least 15 minutes.  
SKIN CONTACT : Wash with water and soap.  
INGESTION : Dilute with water and get medical attention.  
INHALATION : Remove to fresh air area.

#### 5. FIRE FIGHTING MEASURES

##### FLAMMABLE PROPERTIES

FLASH POINT : Dose not flash. (Pensky-Martens closed cup)  
FLAMMABLE LIMITS : LEL : Not available. UEL : Not available.  
AUTOIGNITION TEMPERATURE : >450° C (>842° F)

EXTINGUISHING MEDIA : Water, CO<sub>2</sub>, Foam, Dry chemical.  
UNUSUAL FIRE AND EXPLOSION HAZARDS :

None.

SPECIAL FIRE FIGHTING PROCEDURES :  
Use self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

##### SPILL OR LEAK PROCEDURES :

Wipe up ink with absorbent towel. Wash with water to remove remaining traces of ink.

#### 7. HANDLING AND STORAGE

HANDLING : Avoid skin contact with ink. Prevent eye contact with ink.  
STORAGE : Store in a cool, dark, and dry place.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS : Ventilation is not required under normal use.  
EYE PROTECTION : Not required under normal use.  
SKIN PROTECTION : Not required under normal use.  
RESPIRATORY PROTECTION : Not required under normal use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Dark blue liquid  
ODOR : Slight odor  
pH : 7-10  
VAPOR PRESSURE : <0.4mmHg at 20° C (68° F)  
VAPOR DENSITY (AIR=1) : Not available  
BOILING POINT : >100° C (>212° F)  
FREEZING POINT : <-10° C (<14° F)  
SOLUBILITY IN WATER : Soluble  
SPECIFIC GRAVITY (H<sub>2</sub>O=1) : 1.05-1.10

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#### 10. STABILITY AND REACTIVITY

STABILITY :	Stable.
INCOMPATIBILITY (MATERIALS TO AVOID) :	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS :	Carbon monoxide, Carbon dioxide.
HAZARDOUS POLYMERIZATION :	Dose not occur.

#### 11. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS : Dispose of ink cartridge in accordance with local, state and federal regulations.

#### 12. TOXICOLOGICAL INFORMATION

EYE EFFECTS :	Ink is classified as a MINIMAL IRRITANT.
SKIN EFFECTS :	Ink is classified as a MILD IRRITANT.
ACUTE ORAL EFFECTS :	LD <sub>50</sub> of Ink is greater than 2000 mg/kg.

#### 13. INFORMATION OF SUPPLIERS IN CANADA AND AUSTRALIA

Canada	BROTHER INTERNATIONAL CORP. (Canada) LTD. 1 rue Hôtel de Ville, Dollard-des-Ormeaux, Québec, H9B 3H6, CANADA Telephone Number for Information 514-685-0600 Emergency Telephone Number 514-685-0600
Australia	BROTHER INDUSTRIES (Aust.) PTY. LTD. 7 Khartoum Road, North Ryde, N.S.W. 2113 08875-6714, AUSTRALIA Telephone Number for Information 02-887-4344 Emergency Telephone Number 02-887-4344

The information relates only to this specific ink cartridge. It may not be valid for this ink cartridge, if used in combination with any other materials or in any other process. And it is based on our best knowledge as of the date of preparation.

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