

LC41Y BL, LC47Y BL, LC900Y BL

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First issue: Mar. 12, 2004 Revised: Jan. 22, 2007 MSDS No.: BHY010

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name LC41Y LC47Y Product Code LK1122001 LK1561

LK1561001 LK1387001

Product Name LC41Y BL Product Code LK1310001

LC47Y BL LK1572001 LC900Y BL LK1413001

LC900Y

General Use

Inkjet printing

Product Description

Water based ink cartridge for inkjet printing machine.

MSDS No.

BHY010

Manufacturer

BROTHER INDUSTRIES, LTD.

5-1, Hamada-cho, Minami-ku, Nagoya 457-0822, JAPAN Telephone Number for Information +81-52-824-3445

Importer

BROTHER INTERNATIONAL CORPORATION

in USA

100 Somerset Corporate Boulevard, P.O.Box 6911, Bridgewater,

NJ 08807-0911, USA

Telephone Number for Information

+1-800-284-4329

Importer

BROTHER INTERNATIONAL EUROPE LTD.

in Europe

Brother house, 1 Tame Street, Guide Bridge, Audenshaw, Manchester

M34 5JE, UK

Telephone Number for Information

+44-161-330-6531

Importer

BROTHER INTERNATIONAL CORP. (Canada) LTD.

in Canada

1 rue Hôtel de Ville, Dollard-des-Ormeaux, Québec, H9B 3H6, CANADA

Telephone Number for Information

+1-514-685-0600

Importer

in Australia

BROTHER INTERNATIONAL (AUST.) PTY. LTD. ACN 001 393 835 7 Khartoum Road, North Ryde, N.S.W. 2113 08875-6714, AUSTRALIA

Telephone Number for Information

+61-2-9887-4344

Importer

BROTHER INDUSTRIES (SHEN ZHEN) LTD.

in China

Bag Lung Industrial Eatate, Longgang, Shenzhen, China

Telephone Number for Information

+86-755-2871-2766

Please telephone to the above office during our business hours.



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2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS# / EC#	% by weight	USA OSHA PEL	ACGIH TLV	EU Symbol / Risk Phrases
Glycerol	56-81-5 / 200-289-5	10 - 30	(as mist) Total dust TWA 15mg/m ³ Respirable fraction TWA 5mg/m ³	(as mist) Total dust TWA 10mg/m ³	Not classified
Diethylene glycol	111-46-6 / 203-872-2	1 - 8	Not established	Not established	Xn / R22
Water	7732-18-5 / 231-791-2	50 - 70	Not established	Not established	Not established

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Ink in cartridge is dark yellow liquid with slight odor.

Keep out of reach of children.

Ink poses little or no immediate hazard if spilled.

POTENTIAL HEALTH EFFECTS

Inhalation:

Not expected to be a route of exposure under normal use.

Eye:

Ink may cause slight irritation.

Skin:

Prolonged exposure to ink may cause irritation.

Ingestion:

Ink may cause gastrointestinal or other adverse effects.

CHRONIC EFFECTS / CARCINOGENICITY

All ingredients of ink have not been classified as carcinogens according to

IARC monographs, NTP, and OSHA regulated.

4. FIRST AID MEASURES

INHALATION:

Remove to fresh air area and get medical attention.

EYE:

Flush immediately with running water for at least 15 minutes and get

medical attention.

SKIN:

Wash with water and soap.

INGESTION:

Dilute with water and get medical attention.



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5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Auto-ignition temperature:

412°C

Flammability:

LEL: Not available

UEL: Not available

Flash point:

Does not flash (>90°C)

(Tag closed cup & Cleveland opened cup)

EXTINGUISHING MEDIA

Suitable:

Water, CO₂, Foam, Dry chemical.

Not to be used:

None

FIRE FIGHTING INSTRUCTIONS

Special exposure hazards:

Refer to section 10.

Special protect equipment for fire-fighters:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION:

In case of ink vapor formation use respirator.

ENVIRONMENTAL PRECAUTION: METHODES FOR CLEANING UP:

Take care to minimize ink that reaches to a sewer. 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:

Keep out of reach of children. Store in a cool, dark, and dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:

Refer to section 2.

EXPOSURE CONTROLS

Engineering controls:

Ventilation is not required under normal use.

Personal protection

Respiratory protection:

Not required under normal use.

Hand protection:

Not required under normal use.

Eye protection:

Not required under normal use.

Skin protection:

Not required under normal use.



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UEL: Not available

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Dark yellow liquid

Auto-ignition temperature:

412°C

Boiling point:

105°C

Density:

1.08 g/ml

Flammability:

Flash point:

LEL: Not available

Does not flash (>90°C)

(Tag closed cup & Cleveland opened cup)

Freezing point:

-18°C

Odor:

Slight odor

Partition coefficient (n-octanol/water):

Not available

7 - 10

Solubility in water:

Soluble

Vapor density (Air=1):

Not available

Vapor pressure:

Not available

Viscosity:

2 - 5 mPa · s

10. STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID:

None

MATERIALS TO AVOID:

Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, Carbon dioxide

HAZARDOUS POLYMERIZATION:

Does not occur

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:

LD₅₀ of ink is greater than 2500mg/kg.

Eye irritation:

Ink is classified as a MINIMAL IRRITANT.

Skin irritation:

Ink is classified as a NON IRRITANT.

12. ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:

Not available

BIOACCUMULATIVE POTENTIAL:

Not available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT):

Not applicable

MARITIME TRANSPORT IMDG:

Not applicable

AIR TRANSPORT ICAO/IATA:

Not applicable



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15. REGULATORY INFORMATION

US REGULATIONS

TSCA STATUS:

All components in ink are listed on TSCA inventory.

EUROPEAN REGULATIONS

EU NOTIFICATION:

All components in ink are listed on EINECS or NLP Inventory.

EU HAZARD LABEL:

Ink does not need to be labeled in accordance with EC-Directive

1999/45/EC.

16. OTHER INFORMATION

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 (revision).

EU Hazard Symbols:

Xn: Harmful

EU Risk (R) Phrase definitions:

R22: Harmful if swallowed.

Key

ACGIH TLV

TLV (Threshold Limit Value) under American Conference of Governmental

Industrial Hygienists

DOT

Department Of Transportation (USA)

EINECS

European Inventory of Existing Commercial Chemical Substances (EU)

IARC

International Agency for Research on Cancer

IATA

International Air Transport Association

IMDG

International Maritime Dangerous Goods

NLP

No-Longer Polymers List (EU)

NTP

National Toxicology Program (USA)

OSHA

Occupational Safety and Health Administration (USA)

OSHA HCS

Hazard Communication Standard issued by Occupational Safety and Health

Administration (USA)

OSHA PEL

PEL (Permissible Exposure Limit) under Occupational Safety and Health

Administration (USA)

TSCA

Toxic Substances Control Act (USA)