



Product name: LC61Y, LC65HY-Y, LC980Y, LC1100Y, LC1100HY-Y,
LC38Y, LC67Y, LC990Y

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First issue: Dec. 26, 2007
Revised: Apr. 10, 2008
MSDS No.: BHY018

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	LC61Y	LC65HY-Y	LC980Y	LC1100Y
Product Code	LK3368001	LK3293001	LK3376001	LK3574001
Product Name	LC1100HY-Y	LC38Y	LC67Y	LC990Y
Product Code	LK3539001	LK3663001	LK3671001	LK3651001
General Use	Inkjet printing			
Product Description	Water based ink cartridge for inkjet printing machine.			
MSDS No.	BHY018			
Manufacturer	BROTHER INDUSTRIES, LTD. 5-1, Hamada-cho, Minami-ku, Nagoya 457-0822, JAPAN Telephone Number for Information +81-52-824-3429			
Importer in USA	BROTHER INTERNATIONAL CORPORATION 100 Somerset Corporate Boulevard, P.O.Box 6911, Bridgewater, NJ 08807-0911, USA Telephone Number for Information +1-800-284-4329			
Importer in Canada	BROTHER INTERNATIONAL CORP. (Canada) LTD. 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 in Europe	BROTHER INTERNATIONAL EUROPE LTD. Brother house, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK Telephone Number for Information +44-161-330-6531			

Please telephone to the above office during our business hours.

2. 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.



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CHRONIC EFFECTS / CARCINOGENICITY

Ingredients of ink have not been classified as carcinogens according to IARC monographs, NTP, and OSHA regulated.

EU HAZARD LABEL

Ink is not classified according to EU-Directive 1999/45/EC.

3. 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	5 - 10	(as mist) Total dust TWA 15mg/m ³ Respirable fraction TWA 5mg/m ³	(as mist) Total dust TWA 10mg/m ³	Not classified
Triethylene glycol monobutyl ether	143-22-6 / 205-592-6	1 - 5	Not established	Not established	Xi / R41
Yellow dye	Registered	1 - 5	Not established	Not established	Not established
Water	7732-18-5 / 231-791-2	60 - 80	Not established	Not established	Not established

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.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Auto-ignition temperature : 426°C
 Flammability : LEL : Not available . UEL : Not available
 Flash point : Does not flash (>93.3°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.



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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION : In case of ink vapor formation use respirator.
ENVIRONMENTAL PRECAUTION : Take care to minimize ink that reaches to a sewer.
METHODES FOR CLEANING UP : 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Dark yellow liquid
Auto-ignition temperature : 426°C
Boiling point : 103°C
Density : 1.05 g/ml
Flammability : LEL : Not available UEL : Not available
Flash point : Does not flash (>93.3°C)
(Tag closed cup & Cleveland opened cup)
Freezing point : -7°C
Odor : Slight odor
Partition coefficient (n-octanol/water) : Not available
pH : 7 - 9
Solubility in water : Soluble
Vapor density (Air=1) : Not available
Vapor pressure : Not available
Viscosity : 2 - 5 mPa·s



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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 :	LD ₅₀ of ink is greater than 2000mg/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

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 in EINECS, ELINCS or NLP Inventory.

EU HAZARD LABEL : Ink is not classified according to EU-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).



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EU Hazard Symbols : Xi : Irritant
EU Risk (R) Phrase definitions : R41 : Risk of serious damage to eyes.

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)