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First issue: Dec. 26, 2007 Revised: Jul. 6, 2010 MSDS No.: BHK018 Version Number 7

Product name: LC11BK, LC16BK, LC38BK, LC39BK, LC60BK, LC61BK, LC67BK, LC980BK, LC985BK, LC990BK, LC1100BK, LC65HY-BK, LC67HY-BK, LC990HY-BK, LC1100HY-BK

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

 Product Name
 LC11BK
 LC16BK
 LC38BK
 LC39BK

 Product Code
 LK3636001, LK4689001
 LK3518001, LK4709001
 LK3660001, LK4195001
 LK5404001

Product Name LC60BK LC61BK LC67BK LC980BK

Product Code LK5728001 LK3365001, LK4296001 LK3668001, LK4221001 LK3373001, LK4047001

Product Name LC985BK LC990BK LC1100BK

Product Code LK4620001, LK5400001 LK4460001 LK3571001, LK3984001

General Use Inkjet printing

Product Description Water based ink cartridge for inkjet printing machine

MSDS No. BHK018

Manufacturer BROTHER INDUSTRIES, LTD.

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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 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 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 (AUST.) PTY. LTD. ACN 001 393 835

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AUSTRALIA

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We do not provide 24 hours cover for information contact.

Please telephone to the above office during our business hours.



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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Ink in cartridge is black 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

Specific data are not available. Carbon black has been classified by the IARC as group 2B. Other 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
Carbon Black	1333-86-4/ 215-609-9	1 - 5	Limits for air contaminant TWA3.5mg/m ³	TWA3.5mg/m ³ Not classifiable as a human carcinogen.	Not classified
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
Water	7732-18-5 / 231-791-2	50 - 70	Not established	Not established	Not classified

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 : >400°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:

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: 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. Avoid 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 3.

EXPOSURE CONTROLS

Engineering controls: Ventilation is not required under normal use.

Personal protection

Respiratory protection:

Hand protection:

Not required under normal use.



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MATERIAL SAFETY DATA SHEET

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Auto-ignition temperature:

Black liquid
>400°C
>100°C

Density: Approximately 1.08g/ml

Flammability: LEL: Not available UEL: Not available

Flash point: Does not flash (>93.3°C)

(Tag closed cup & Cleveland opened cup)

Freezing point : <-5°C
Odor : Slight odor
Partition coefficient (n-octanol/water) : Not available

pH: 7-9Solubility 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: 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



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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 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).

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
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)