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First issue: Dec. 26, 2007 Revised: Jul. 6, 2010 MSDS No.: BHY018 Version Number 7

Product name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HY-Y, LC67HY-Y, LC990HY-Y, LC1100HY-Y

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name LC60Y LC61Y LC67Y LC980Y

Product Code LK5731001 LK3368001, LK4299001 LK3671001, LK4224001 LK3376001, LK4050001

Product Name LC985Y LC990Y LC1100Y

Product Code LK4623001, LK5403001 LK4463001 LK3574001, LK3987001

General Use Inkjet printing

Product Description Water based ink cartridge for inkjet printing machine.

MSDS No. BHY018

Manufacturer BROTHER INDUSTRIES, LTD.

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Importer BROTHER INTERNATIONAL CORP. (Canada) LTD.

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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 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

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.



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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. 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 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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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark yellow liquid

Auto-ignition temperature : >400°C Boiling point : >100°C

Density: Approximately 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 : <-5°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

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.



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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).

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)