

Product Name

LC11BK, LC16BK, LC38BK, LC39BK, LC60BK, LC61BK, LC67BK, LC975BK, LC980BK, LC985BK, LC990BK, LC1100BK, LC65HY-BK, LC67HY-BK, LC990HY-BK, LC1100HY-BK Ink

SDS No.: BHK018-01-EUUSOTHER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

 Product Name:
 LC11BK
 LC16BK
 LC38BK
 LC39BK

 Product Code:
 LK3636001,
 LK3518001,
 LK3660001,
 LK5404001

 LK4709001
 LK4195001
 LK4195001
 LK4195001

 Product Name:
 LC60BK
 LC61BK
 LC67BK
 LC975BK

 Product Code:
 LK5728001
 LK3365001,
 LK3668001,
 LK5669001

LK4296001, LK4221001

LK5794001

Product Name: LC980BK LC985BK LC990BK LC1100BK Product Code: LK3373001, LK4620001, LK4460001 LK3571001, LK4047001 LK5400001 LK3984001 Product Name: LC65HY-BK LC67HY-BK LC990HY-BK LC1100HY-BK

Product Code: LK3261001, LK3516001, LK3517001, LK450001 LK4020001

Use: These products are black ink in a cartridge for Brother Industries, Ltd. inkjet

multifunction devices and fax receivers.

The cartridge should be used as supplied by Brother and for use in the products stated. Information provided on this SDS is only consistent with the use specified

by Brother.

Manufacturer: Brother Industries, Ltd.

15-1 Naeshiro-cho, Mizuho-ku,

Nagoya 467-8561,

Japan

Telephone (for information): +81-52-824-2735

Importer USA: Brother International Corporation

P.O. Box 6911, 100 Somerset Corporate Boulevard, Bridgewater, NJ 08807-

0911, USA

Telephone (for information): +1-800-284-4329

Importer Canada: Brother International Corporation (Canada) Ltd.

1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada

Telephone (for information): +1-514-685-0600

Importer Europe: Brother International Europe Ltd.

Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE,

UK

Telephone (for information): +44-161-330-6531

Importer Australia: Brother International (Aust.) Pty. Ltd. ACN 001 393 835

Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia

Telephone (for information): +61-2-9887-4344

Emergency Phone No.: CHEMTREC

+1-703-527-3887 (International) +1-800-424-9300 (North America)

For France only:

Antipoison Center telephone number: ORFILA +33-1-45-425-959

E-mail address for information: sds.info@brother.co.jp

2. HAZARDS IDENTIFICATION

Potential health effects from

overexposure:

Routes of exposure: skin contact, eye contact, ingestion. Thermal decomposition will evolve toxic and irritant vapors.

Combustion products: See Section: 10.

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Potential Health Effects: Routes of exposure:

skin contact, eye contact, and ingestion.

Skin Contact:

Repeated and/or prolonged skin contact may cause irritation.

Eye Contact:

May cause eye irritation.

Inaestion:

Ingestion may cause irritation of the gastrointestinal tract. Unlikely route of

exposure.

Inhalation:

Unlikely route of exposure.

CHRONIC (CANCER) INFORMATION / CARCINOGENICITY:

No information 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.

EU Classification: Not classified as hazardous according to EU Directive 1999/45/EC.

Australia Classification: Not classified as hazardous according to the criteria of NOHSC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Water based inkjet ink (Mixture).

Chemical Name	CAS No.	EC No.	%W/W	EU Hazard Symbols	EU Risk Phrases
Glycerol	56-81-5	200-289-5	10 - 30	Not classified.	Not classified.
Carbon Black	1333-86-4	215-609-9	1 - 5	Not classified.	Not classified.
Water	7732-18-5	231-791-2	50 - 70	Not classified.	Not classified.

4. FIRST AID MEASURES

General: If symptoms persist, obtain medical attention.

Inhalation: Obtain medical attention. In case of accident by inhalation remove casualty to

fresh air and keep at rest.

Skin Contact: Remove contaminated clothing immediately and wash affected skin with plenty of

water or soap and water.

Eye Contact: Obtain medical attention. If substance has got into the eyes, immediately wash

out with plenty of water for at least 15 minutes.

Ingestion: Obtain immediate medical attention. Wash out mouth with water and give 200-

300 ml (half a pint) of water to drink.

5. FIRE-FIGHTING MEASURES

General: Flammable properties:

Auto Ignition Temperature (°C): >400

Flammability: LEL: Not available. UEL: Not available.

Flash Point: Does not flash (> 93.3 °C) (Tag Closed cup and Cleveland Open cup)

Extinguishing Media: Extinguish preferably with dry chemical, Carbon dioxide, Water, Foam.

Unsuitable Extinguishing Media: None.

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Use appropriate respirator for carbon monoxide and carbon dioxide. Wear Special firefighting procedures:

positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory

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protection must leave the area to prevent significant exposure to toxic

combustion gases from any source.

Thermal decomposition of organic components may result in occurrence of Unusual fire and explosion hazards:

oxides of carbon. Toxic gasses may be formed upon combustion and represents

a hazard to firefighters. Combustion products: See Section: 10.

ACCIDENTAL RELEASE MEASURES

Personal Protection: In case of ink vapor formation, use respirator.

Prevent substance entering sewers. Washings must be prevented from entering **Environmental Precautions:**

surface water drains.

Methods for Cleaning Up: Wipe up with absorbent towel. Wash with water to remove remaining traces of ink.

DISPOSAL CONSIDERATIONS - See Section: 13.

HANDLING AND STORAGE

Handling: Keep out of the reach of children. Avoid contact with skin. Avoid contact with

eyes.

Storage: Keep out of the reach of children. Keep away from oxidizing agents.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

SUBSTANCE	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
Carbon Black	1333-86-4	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	None.
Glycerol	56-81-5	(as mist) Total Dust TWA 15mg/m³ Respirable Fraction TWA 5mg/m³	(as mist) TWA 10mg/m ³	None.

Not normally required. **Environmental Exposure Controls:**

Good general ventilation should be sufficient under normal use. Ventilation:

Personal Protection: Not normally required. For use other than in normal operating procedures (such

as in the event of large spill), the following should be applied:

Eye/face: Goggles. Skin: Protective gloves.

Large spillages: Wear suitable respiratory protective equipment.

PHYSICAL AND CHEMICAL PROPERTIES

pH (Value): 7 - 9 Liquid. Form: Color: Black. Odor: Slight. Boiling Point (°C): >100

Melting Point (°C): Not applicable.

Freezing Point (°C): < -5 Vapor Pressure (Pascal): No data. Viscosity (mPa.s): 2 - 5

Does not flash (> 93.3 °C) Flash Point (°C):

(Tag Closed cup Cleveland Open cup)

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Flammable Limits (Upper) (%v/v):

Flammable Limits (Lower) (%v/v):

Explosive Properties:

Auto Ignition Temperature (°C):

Density (g/ml):

Vapor Density (Air=1):

Not available.

Not applicable.

> 400

ca. 1.08

No data.

Vapor Density (Air=1):No data.Partition Coefficient (n-Octanol/water):No data.Relative Evaporation Rate (Ether=1):No data.Oxidizing Properties:No data.Solubility (Water):Soluble.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to avoid: None.

Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition Product(s): Contains: Carbon monoxide and Carbon dioxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Ingestion: Acute $LD_{50} > 2000 \text{mg/kg}$ (Method: OECD#420)

Skin Contact: Non-irritant. (Method: OECD#404)

Eye Contact: Minimal irritant to the eye. (Method: OECD#405)

Mutagenicity: Negative. (Method: OECD#471)

Skin sensitization: It is not a skin sensitizer. (Method: OECD#429)

Carbon Black: Carcinogenicity Information.

In 1996, the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an

opinion of carcinogenicity.

The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle

overload of the lung.

Studies performed in animal models other than rats did not show any association

between carbon black and lung tumors.

Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA.

12. ECOLOGICAL INFORMATION

No data available on the adverse effects of this product on the environment.

Toxicity: No data.

Environmental Fate and Distribution: No data.

Persistence and Degradation: No data.

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13. DISPOSAL CONSIDERATIONS

Dispose of in compliance with Federal, State and local regulations.

14. TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

UN No.: None. Class: None.

Not regulated under DOT, IMDG, IATA.

15. REGULATORY INFORMATION

USA: All chemicals in this product comply with TSCA rules and regulations including

TSCA Section 5 (Inventory Rules).

EU: Not classified as dangerous for supply/use. (1999/45/EC, 67/548/EEC)

Hazard Symbol, Risk Phrases, Safety Phrases: None assigned.

Canada: WHMIS: Not applicable. (Manufactured article)

16. OTHER INFORMATION

The following sections contain revisions or new statements: All sections (Version Number 6).

The following sections contain revisions or new statements: Section 1 (Version Number 7 and Version Number 8).

Additional Information: The information relates only to this product. It may not be valid, 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).

Reference: - U.S. 29CFR Part 1910

- ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and

Biological Exposure Indices

- EU Directive 91/322/EEC and 2000/39/EC

- IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health

Organization

- NTP 11th Report on Carcinogens

Abbreviations: ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International carriage of Dangerous

goods by Road (EU)

DOT: Department Of Transportation (US)

EINECS: European Inventory of Existing Commercial Chemical Substances

HCS: Hazard Communication Standard (US)
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
IOELV: Indicative Occupational Exposure Limit Value

NOHSC: National Occupational Health and Safety Commission (Australia)

NTP: National Toxicology Program (US)

OSHA: Occupational Safety and Health Administration (US)

PEL: Permissible Exposure Limit

RID: Regulations concerning the International carriage of goods by Rail (EU)

TLV: Threshold Limit Value (ACGIH)
TSCA: Toxic Substances Control Act (US)

WHMIS: Workplace Hazardous Material Information System (Canada)

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