



# SAFETY DATA SHEET

Issuing Date: 26-October-2011

Revision Date: 1-April-2015

Version: 6

SDS No: BHK023-01-EUUSOTHER

Product name: LC10EBK, LC12EBK, LC15EBK, LC101BK,  
LC103BK, LC107BK, LC109BK, LC110BK, LC111BK, LC113BK,  
LC117BK, LC119BK, LC121BK, LC123BK, LC127XLBK, LC129XLBK,  
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LC567XLBK, LC569XLBK, LC583BK, LC587XLBK, LC589XLBK,  
LC597XLBK, LC599XLBK Ink

1473031

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name (code)** LC10EBK(LK9896001), LC12EBK(LK9920001), LC15EBK(LK9908001), LC101BK(LK7322001), LC103BK(LK6537001), LC107BK(LK6576001), LC109BK(LK7597001), LC110BK(LK7507001), LC111BK(LK7475001), LC113BK(LK6868001), LC117BK(LK6900001), LC119BK(LK7598001), LC121BK(LK7370001), LC123BK(LK6810001), LC127XLBK(LK6924001), LC129XLBK(LK7599001), LC131BK(LK7406001), LC133BK(LK7242001), LC137XLBK(LK7209001), LC139XLBK(LK7600001), LC161BK(LK7652001), LC163BK(LK7656001), LC509BK(LK7725001), LC529XLBK(LK7729001), LC539XLBK(LK7733001), LC549XLBK(LK7738001), LC563BK(LK6970001), LC567XLBK(LK6974001), LC569XLBK(LK7723001), LC583BK(LK7001001), LC587XLBK(LK7005001), LC589XLBK(LK7724001), LC597XLBK(LK7017001), LC599XLBK(LK7737001)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant Identified Use(s)** 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.

### 1.3 Details of the supplier of the safety data sheet

**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  
200 Crossing Boulevard, Bridgewater, NJ 08807, USA  
Telephone (for information): +1-877-276-8437

**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

**E-mail Address** sds.info@brother.co.jp

### 1.4 Emergency telephone number

**Emergency Telephone (24 hours)** 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

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Not classified as hazardous

**Classification according to Directive 1999/45/EC**

Not classified as hazardous

**Australia Classification**

Not classified as hazardous according to the criteria of NOHSC

### 2.2 Label elements

**Labelling according to Regulation (EC) No. 1272/2008**

**Hazard pictograms**

None

**Signal Word**

None

**Hazard Statements**

EUH208 - Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

**Precautionary statements**

None

### 2.3 Other hazards

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Description of the mixture: Water based inkjet ink (Mixture).

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)
Glycerol	56-81-5	200-289-5	5-15	Not classified	Not classified
Carbon Black	1333-86-4	215-609-9	1-10	Not classified	Not classified
Diethylene glycol	111-46-6	203-872-2	1-9	Xn; R22	Acute Tox. 4 (H302)
Water	7732-18-5	231-791-2	60-70	Not classified	Not classified
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Xn; R22 Xi; R41 Xi; R38 R43 N; R50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

For the full text of R-phrases and H-Statements see Section 16

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice	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 100-200 ml of water to drink.

#### 4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Repeated and/or prolonged skin contact may cause irritation.  
 Eye contact: May cause eye irritation.  
 Ingestion: Ingestion may cause irritation of the gastrointestinal tract. Unlikely route of exposure.  
 Inhalation: Unlikely route of exposure.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable Extinguishing Media Extinguish preferably with dry chemical, carbon dioxide, water spray, foam.

Unsuitable Extinguishing Media None.

### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition of organic components may result in occurrence of oxides of carbon. Toxic gases may be formed upon combustion and represents a hazard to firefighters. Combustion products: See Section: 10.

### 5.3 Advice for firefighters

Use appropriate respirator for carbon monoxide and carbon dioxide. Wear 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 protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with eyes.

### 6.2 Environmental precautions

Prevent substance entering sewers. Washings must be prevented from entering surface water drains.

### 6.3 Methods and materials for containment and cleaning up

Wipe up with absorbent towel. Wash with water to remove remaining traces of ink.

### 6.4 Reference to other sections

For personal protection: See section 8.  
For disposal considerations: See section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep out of the reach of children. Avoid contact with skin and eyes.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep away from oxidizing agents.

### 7.3 Specific end use(s)

These products are black ink in a cartridge for Brother Industries, Ltd. inkjet multifunction devices and fax receivers. This cartridge should be used as supplied by Brother and for use in the products stated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

Chemical Name	Glycerol 56-81-5
ACGIH TLV	TWA: 10 mg/m <sup>3</sup> mist

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<b>OSHA PEL</b>	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction
<b>European Union</b>	-
<b>The United Kingdom</b>	STEL: 30 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
<b>France</b>	TWA: 10 mg/m <sup>3</sup>
<b>Spain</b>	TWA: 10 mg/m <sup>3</sup>
<b>Germany</b>	TWA: 50 mg/m <sup>3</sup> Ceiling / Peak: 100 mg/m <sup>3</sup>
<b>Portugal</b>	TWA: 10 mg/m <sup>3</sup>
<b>Finland</b>	TWA: 20 mg/m <sup>3</sup>
<b>Switzerland</b>	STEL: 100 mg/m <sup>3</sup> TWA: 50 mg/m <sup>3</sup>
<b>Poland</b>	TWA: 10 mg/m <sup>3</sup>
<b>Ireland</b>	TWA: 10 mg/m <sup>3</sup>
<b>Chemical Name</b>	<b>Carbon Black</b> 1333-86-4
<b>ACGIH TLV</b>	TWA: 3 mg/m <sup>3</sup> inhalable fraction
<b>OSHA PEL</b>	TWA: 3.5 mg/m <sup>3</sup>
<b>European Union</b>	-
<b>The United Kingdom</b>	STEL: 7 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup>
<b>France</b>	TWA: 3.5 mg/m <sup>3</sup>
<b>Spain</b>	TWA: 3.5 mg/m <sup>3</sup>
<b>Germany</b>	Carc
<b>Portugal</b>	TWA: 3.5 mg/m <sup>3</sup>
<b>Finland</b>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
<b>Denmark</b>	TWA: 3.5 mg/m <sup>3</sup>
<b>Poland</b>	TWA: 4.0 mg/m <sup>3</sup>
<b>Norway</b>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
<b>Ireland</b>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
<b>Chemical Name</b>	<b>Diethylene glycol</b> 111-46-6
<b>ACGIH TLV</b>	-
<b>OSHA PEL</b>	-
<b>European Union</b>	-
<b>The United Kingdom</b>	STEL: 69 ppm STEL: 303 mg/m <sup>3</sup> TWA: 23 ppm TWA: 101 mg/m <sup>3</sup>
<b>Germany</b>	TWA: 10 ppm TWA: 44 mg/m <sup>3</sup> Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m <sup>3</sup>
<b>Denmark</b>	TWA: 2.5 ppm TWA: 11 mg/m <sup>3</sup>
<b>Austria</b>	STEL 40 ppm STEL 176 mg/m <sup>3</sup> TWA: 10 ppm TWA: 44 mg/m <sup>3</sup>
<b>Switzerland</b>	STEL: 40 ppm STEL: 176 mg/m <sup>3</sup> TWA: 10 ppm TWA: 44 mg/m <sup>3</sup>
<b>Poland</b>	TWA: 10 mg/m <sup>3</sup>

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Ireland	TWA: 23 ppm TWA: 100 mg/m <sup>3</sup>
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## 8.2 Exposure controls

- Appropriate engineering controls** Good general ventilation should be sufficient under normal use.
- Personal protective equipment** 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 Protection** Safety goggles.
- Hand Protection** Protective gloves.
- Skin and body protection** Long sleeved clothing and long pants.
- Respiratory protection** Large spillages: Wear suitable respiratory protective equipment.
- Environmental Exposure Controls** Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Black
Odor	Slight
Odor Threshold	No information available
pH	7 - 9
Melting point/freezing point	- / < -5 °C
Initial boiling point and boiling range	> 100 °C
Flash Point	Not less than 93.3°C ( Tag closed cup; Cleveland open cup )
Evaporation rate	No information available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	1.0 - 1.1 (H <sub>2</sub> O=1)
Solubility(ies)	Soluble (water)
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	>400 °C
Decomposition temperature	No information available
Viscosity	2 - 5 mPa·s
Explosive properties	Not explosive
Oxidizing properties	No information available

### 9.2 Other information

No information available.

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## SECTION 10: Stability and reactivity

10.1 Reactivity	No information available.
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	No information available.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Contains: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Inhalation	No information available.
Eye contact	No information available.
Skin contact	No information available.
Ingestion	LD <sub>50</sub> > 2000 mg/kg (Method: OECD#420)

**Skin corrosion/irritation** Non-irritant. (Method: OECD#404)

**Serious eye damage/irritation** Minimal irritant to the eye. (Method: OECD#405)

**Respiratory or skin sensitisation** It is not a skin sensitizer. (Method: OECD#429)

**Mutagenicity** Negative. (Method: OECD#471)

**Carcinogenicity** Carbon Black: In 1996, the IARC re-evaluated 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.**



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## SECTION 12: Ecological information

### 12.1 Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol 56-81-5		LC <sub>50</sub> : 51 - 57 mL/L 96 h static (Oncorhynchus mykiss)	EC <sub>50</sub> : >500 mg/L 24 h (Daphnia magna)
Carbon Black 1333-86-4			EC <sub>50</sub> : >5600 mg/L 24 h (Daphnia magna)
Diethylene glycol 111-46-6		LC <sub>50</sub> : 75200 mg/L 96 h flow-through (Pimephales promelas)	EC <sub>50</sub> : 84000 mg/L 48 h (Daphnia magna)

12.2 Persistence and degradability No information available.

### 12.3 Bioaccumulative potential

Chemical Name	log Pow
Glycerol	-1.76
Diethylene glycol	-1.98

12.4 Mobility in soil No information available.

12.5 Results of PBT and vPvB assessment This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects No information available.

## SECTION 13: Disposal considerations

13.1 Waste treatment methods Dispose of in accordance with Federal, State, and local regulations.





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## SECTION 14: Transport information

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

14.1 UN Number	None
14.2 UN proper shipping name	None
14.3 Transport hazard class(es)	None
14.4 Packing Group	None
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	Not applicable

Not regulated under DOT, IMDG, IATA.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	EU: Not classified as dangerous for supply/use. (1999/45/EC) USA: All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules. Canada: WHMIS: Not applicable. (Manufactured article)
15.2 Chemical Safety Assessment	No.



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## SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed  
R41 - Risk of serious damage to eyes  
R38 - Irritating to skin  
R43 - May cause sensitization by skin contact  
R50 - Very toxic to aquatic organisms

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H317 - May cause an allergic skin reaction  
H400 - Very toxic to aquatic life

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).

Revision Note

SECTION 1, 2, 3.

References:

U.S. 29CFR Part 1910  
ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices  
IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization  
EU Directive 91/322/EEC and 2000/39/EC  
NTP 11th Report on Carcinogens

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists  
DOT: Department Of Transportation (US)  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
IMDG: International Maritime Dangerous Goods  
NOHSC: National Occupational Health and Safety Commission (Australia)  
NTP: National Toxicology Program (US)  
OSHA: Occupational Safety and Health Administration (US)  
PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Value (ACGIH)  
TSCA: Toxic Substances Control Act (US)  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Material Information System (Canada)