

Product Name: LC11BK, LC16BK, LC38BK, LC39BK, LC60BK, LC61BK, LC67BK, LC975BK, LC980BK, LC985BK, LC990BK, LC1100BK, LC65HYBK, LC67HYBK, LC990HYBK, LC1100HYBK Ink

Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007 Revision Number: 12

Safety data sheet number: BHK018-01

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

1.1. Product identifier	
Product Name	LC11BK, LC16BK, LC38BK, LC39BK, LC60BK, LC61BK, LC67BK, LC975BK, LC980BK, LC985BK, LC990BK, LC1100BK, LC65HYBK, LC67HYBK, LC990HYBK, LC1100HYBK Ink
Product Form	Mixture
Safety data sheet number	BHK018-01
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Relevant identified uses	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.
Uses advised against	No information available
1.3. Details of the supplier of the sa	fety data sheet
Manufacturer_	Brother Industries, Ltd. 15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan Telephone (for information): +81-52-824-2735
Importer	Brother International Europe Ltd. Brother House, 1 Tame Street, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531
For further information, please con	tact
E-mail address	sds.info@brother.co.jp
1.4. Emergency telephone number	_
Emergency Telephone	CHEMTREC +1-703-527-3887 (International)
	For France only: Antipoison Center telephone number: ORFILA +33-1-45-425-959

### Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]



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### 2.2. Label elements

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

EUH208 - Contains 1,2-Benzisothiazolin-3-one May produce an allergic reaction.

### 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).

### Section 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	CAS No	EC No	EC Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Water	7732-18-5	231-791-2	-	65-75	Not classified	No data available
Glycerol	56-81-5	200-289-5	-	20-30	Not classified	No data available
Carbon Black	1333-86-4	215-609-9 435-640-3	-	1-5	Not classified	Registered
1,2-Benzisothiazolin-3-one	2634-33-5	220-120-9	613-088-00-6	<0.05	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	No data available

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Full text of H- and EUH-phrases: see section 16

### Section 4: First aid measures

### 4.1. Description of first aid measures

**General advice** 

If symptoms persist, call a physician.



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Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact:	Take off contaminated clothing. Wash off immediately with soap and plenty of water.	
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		
Symptoms	Skin contact: Repeated and/or prolonged skin contact may cause irritation Eye contact: May cause eye irritation Ingestion: May cause stomach ache. Unlikely route of exposure Inhalation : Unlikely route of exposure	
4.3. Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

### Section 5: Firefighting measures

### 5.1. Extinguishing media Suitable Extinguishing Media Dry chemical, CO<sub>2</sub>, water spray or regular foam. Unsuitable extinguishing media None. 5.2. Special hazards arising from the substance or mixture Specific hazards arising from the Thermal decomposition can lead to release of irritating gases and vapors chemical 5.3. Advice for firefighters Special protective equipment for Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting fire-fighters 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

**For non-emergency personnel** Ensure adequate ventilation. Avoid contact with eyes.



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For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent substance entering sewers. Washings must be prevented from entering surface water drains.
6.3. Methods and material for conta	inment and cleaning up
Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Wipe up with absorbent towel Wash with water to remove remaining traces of ink.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

### Section 7: Handling and storage

7.1. Precautions for safe handling	-	
Advice on safe handling	Keep out of reach of children. Avoid contact with skin and eyes.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep away from oxidizing agents.	
7.3. Specific end use(s)		
Specific 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.	

### Section 8: Exposure controls and personal protection

### 8.1. Control parameters

### **Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
Glycerol	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 200 mg/m <sup>3</sup>
56-81-5		STEL: 30 mg/m <sup>3</sup>			-



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Carbon Black	-	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	_
1333-86-4		STEL: 7 mg/m <sup>3</sup>	17777. 0.0 mg/m	1 W/ (2 0.0 mg/m	
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Glycerol 56-81-5	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 20 mg/m <sup>3</sup>	-
Carbon Black 1333-86-4	-	TWA: 3.5 mg/m <sup>3</sup>	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Glycerol 56-81-5	-	TWA: 50 mg/m <sup>3</sup> STEL: 100 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>
Carbon Black 1333-86-4	-	-	TWA: 4.0 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>

### Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration	No information available.
(PNEC)	

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/face protection	Safety goggles.
Hand protection	Protective gloves.
Skin and body protection	Long sleeved clothing and long pants.
Respiratory protection	In case of 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 Color Odor Odor threshold	Liquid black Slight. No information available	
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range	<u>Values</u> 7 - 9 < -5 ℃ > 100 ℃	Remarks • Method



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Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air **Upper flammability limit:** Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility(ies) Partition coefficient Autoignition temperature **Decomposition temperature** Kinematic viscosity Dynamic viscosity **Explosive properties Oxidizing properties** 

**9.2. Other information** No information available No data available 1.0 - 1.1Soluble in water No data available No data available > 400 °C

> 94 °C

No data available > 400 °C No data available No data available 1 - 5 mPa s No information available No information available Tag Closed Cup, Cleveland Open Cup, None known None known None known

None known None known (H<sub>2</sub>O=1)

None known None known

None known None known

No information available.

### Section 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under normal conditions.

### 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

Carbon monoxide, Carbon dioxide (CO2)



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### Section 11: Toxicological information

### **Product Information**

Inhalation	No information available
Eye contact	No information available
Skin contact:	No information available
Ingestion	Acute LD <sub>50</sub> > 2000 mg/kg (OECD 420 method)
The following values are calculated	I based on chapter 3.1 of the GHS document
ATEmix (oral) ATEmix (dermal)	52,271.10 mg/kg 27,474.80 mg/kg
Skin corrosion/irritation	Non-irritant (OECD 404 method)
Serious eye damage/eye irritation	Minimal irritant to the eye (OECD 405 method)
Respiratory or skin sensitization	It is not a skin sensitizer (OECD 429 method)
Germ cell mutagenicity	AMES test : Negative (OECD 471 method)
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

### Section 12: Ecological information

### 12.1. Toxicity

### Ecotoxicity .

Contains 0 % of components with unknown hazards to the aquatic environment.



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Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol	-	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	-	500: 24 h Daphnia magna mg/L EC50
Carbon Black	-	1000:96 h Brachydanio rerio mg/L LC50	-	5600: 24 h Daphnia magna mg/L EC50

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

There is no data for this product.

#### **Component Information**

Chemical name	Partition coefficient	
Glycerol	-1.76	
1,2-Benzisothiazolin-3-one	1.3	

#### 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 in accordance with federal, state and local regulations.

### Section 14: Transport information

#### IMDG

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated



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14.5 Marine pollutant Not applicable 14.6 Special Provisions None 14.7 Transport in bulk according toNot applicable Annex II of MARPOL 73/78 and the **IBC Code** 

#### RID

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None
ADR	_	
14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None
	-	
<u>IATA</u>	_	
14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None

### Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations
\* Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XVII.

- \* Contains no substance listed in REACH Regulation (EC) No.1907/2006 Candidate List for Authorization.
- \* Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XIV.

### **National Regulations**

No information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out



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### Section 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of H-Statements referred to under section 3 H302 - Harmful if swallowed H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H400 - Very toxic to aquatic life Legend SVHC: Substances of Very High Concern for Authorization: TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit) Trade secret Key literature references and sources for data No information available Revision Date 10-Mar-2020 Issuing Date 26-Dec-2007 **Revision Note** No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

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).