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This document contains the safety data sheets of LC1280XLBK, LC1280XLC, LC1280XLM and LC1280XLY, as a combined document for this pack is not available.



Issuing Date: 12-April-2010 Revision Date: 1-April -2015

Version: 6

SDS No: BHK021-01-EUUSOTHER

Product name: LC12BK, LC17BK, LC40BK, LC71BK, LC73BK, LC75BK, LC77XLBK, LC79BK, LC400BK, LC450XLBK, LC1220BK,

LC1240BK, LC1280XLBK Ink

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

1.1 Product identifier

LC12BK (LK5481001), LC17BK (LK5477001), LC40BK (LK6315001), LC71BK (LK6001001), LC73BK (LK6207001), LC75BK (LK5473001), LC77XLBK (LK6183001), LC79BK (LK5469001), Product name (code)

LC400BK (LK6151001), LC450XLBK (LK6127001), LC1220BK (LK6009001),

LC1240BK (LK5702001, LK5827001), LC1280XLBK (LK5706001)

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

ΕN

Emergency Telephone CHEMTREC

(24 hours) +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).



Issuing Date: 12-April-2010 Revision Date: 1-April -2015

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SDS No: BHK021-01-EUUSOTHER

Product name: LC12BK, LC17BK, LC40BK, LC71BK, LC73BK, LC75BK, LC77SLBK, LC79BK, LC450XLBK, LC1220BK, LC450XLBK, LC1220BK, LC450XLBK, LC450XLBK,

LC1240BK, LC1280XLBK Ink

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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LC1240BK, LC1280XLBK Ink

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

Ensure adequate ventilation. Avoid contact with eyes.

6.2 Environmental precautions

procedures

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 ³ mist		
OSHA PEL	TWA: 15 mg/m ³ mist, total particulate		
	TWA: 5 mg/m ³ mist, respirable fraction		
European Union	-		
The United Kingdom	STEL: 30 mg/m ³		
	TWA: 10 mg/m ³		



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France		
Germany		
Portugal TWA: 10 mg/m²		
Portugal TWA: 10 mg/m² Finland TWA: 20 mg/m² Switzerland STEL: 100 mg/m² SWitzerland STEL: 100 mg/m² TWA: 50 mg/m² Poland TWA: 10 mg/m² TwA: 10 mg/m² Treland TWA: 10 mg/m² Treland TWA: 10 mg/m² Treland TWA: 10 mg/m² Treland TWA: 10 mg/m² TwA: 10 mg/m² TwA: 10 mg/m² TwA: 133.864 ACGIH TLV TWA: 3.5 mg/m² TwA: 4.0 mg/m² TwA: 4.	Germany	TWA: 50 mg/m ³
Finland TWA: 20 mg/m²		Ceiling / Peak: 100 mg/m³
Svitzerland STEL: 100 mg/m³ TWA: 50 mg/m³ TWA: 50 mg/m³ TWA: 10 mg/m³ TWA: 3.5 mg/m³ T		
Poland	Finland	TWA: 20 mg/m ³
Poland TWA: 10 mg/m² Ireland TWA: 10 mg/m² TWA: 3.5 mg/m² TWA: 4.5	Switzerland	
Ireland		TWA: 50 mg/m ³
Carbon Black	Poland	TWA: 10 mg/m ³
ACGIH TLV	Ireland	TWA: 10 mg/m ³
ACGIH TLV	Chemical Name	Carbon Black
DSHA PEL TWA: 3.6 mg/m³		
European Union	ACGIH TLV	TWA: 3 mg/m ³ inhalable fraction
The United Kingdom	OSHA PEL	TWA: 3.5 mg/m ³
The United Kingdom	European Union	
TWA: 3.5 mg/m³		STEL: 7 mg/m³
France		TWA: 3.5 mg/m ³
Spain	France	
Germany Carc		
Portugal TWA: 3.5 mg/m³ Finland TWA: 3.5 mg/m³ STEL: 7 mg/m³ STEL: 7 mg/m³ Poland TWA: 3.5 mg/m³ TWA: 3.5 mg/m³ Poland TWA: 3.5 mg/m³ TWA: 3.5 mg/m³ TWA: 3.5 mg/m³ TWA: 3.5 mg/m³ STEL: 7 mg/m³ TWA: 3.5 mg/m³ TWA: 4.4 mg/m³ TWA: 4.5 mg/m³ TWA: 4.		
Finland		
STEL: 7 mg/m³	<u> </u>	
Denmark	Fillialiu	
Poland	Danmark	
Norway		
STEL: 7 mg/m³		
TWA: 3.5 mg/m³	Norway	I WA: 3.5 mg/m ⁻
STEL: 7 mg/m³		STEL: 7 mg/m
Chemical Name	Ireland	IWA: 3.5 mg/m°
ACGIH TLV	21 1 111	
ACGIH TLV	Chemical Name	
OSHA PEL	ACCILI TI V	111-40-0
European Union		•
STEL: 69 ppm STEL: 303 mg/m³ TWA: 23 ppm TWA: 101 mg/m³ TWA: 101 mg/m³ TWA: 44 mg/m³ Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m³ TWA: 11 mg/m³ STEL 40 ppm STEL 176 mg/m³ TWA: 44 mg/m³ STEL 176 mg/m³ STEL 176 mg/m³ TWA: 44 mg/m³ STEL: 40 ppm STEL: 476 mg/m³ TWA: 44 mg/m³ STEL: 476 mg/m³ TWA: 44 mg/m³ TWA: 10 ppm TWA: 44 mg/m³		<u> </u>
STEL: 303 mg/m³ TWA: 23 ppm TWA: 101 mg/m³		-
TWA: 23 ppm TWA: 101 mg/m³ Germany TWA: 10 ppm TWA: 44 mg/m³ Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m³ TWA: 11 mg/m³ Austria STEL 40 ppm STEL 176 mg/m³ TWA: 10 ppm TWA: 10 ppm TWA: 44 mg/m³ Switzerland STEL: 40 ppm STEL: 40 ppm STEL: 40 ppm TWA: 44 mg/m³ TWA: 10 ppm STEL: 176 mg/m³ TWA: 44 mg/m³ TWA: 10 ppm STEL: 176 mg/m³ TWA: 10 ppm STEL: 176 mg/m³ TWA: 10 ppm STEL: 176 mg/m³ TWA: 10 ppm TWA: 44 mg/m³ TWA: 10 ppm TWA: 44 mg/m³ TWA: 10 ppm	The United Kingdom	STEL: 69 ppm
TWA: 101 mg/m³		
TWA: 10 ppm		IVVA: 23 ppm
TWA: 44 mg/m³ Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m³ Denmark TWA: 2.5 ppm TWA: 11 mg/m³ Austria STEL 40 ppm STEL 176 mg/m³ TWA: 10 ppm TWA: 44 mg/m³ STEL: 40 ppm STEL: 40 ppm TWA: 44 mg/m³ STEL: 40 ppm TWA: 44 mg/m³ TWA: 10 ppm		
Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m³	Germany	
Denmark		
Denmark		
TWA: 11 mg/m³		Ceiling / Peak: 176 mg/m²
TWA: 11 mg/m³		
TWA: 11 mg/m³	Danmark	TIMA: 2.5 page
Austria STEL 40 ppm STEL 176 mg/m³ TWA: 10 ppm TWA: 44 mg/m³ Switzerland STEL: 40 ppm STEL: 40 ppm STEL: 176 mg/m³ TWA: 10 ppm TWA: 10 ppm TWA: 10 ppm TWA: 10 mg/m³ Poland Ireland TWA: 23 ppm	Denmark	TWA: 2.5 ppm
STEL 176 mg/m³ TWA: 10 ppm TWA: 44 mg/m³ Switzerland STEL: 40 ppm STEL: 176 mg/m³ TWA: 10 ppm TWA: 10 ppm TWA: 44 mg/m³ TWA: 10 ppm TWA: 40 mg/m³ TWA: 23 ppm		I WA: 11 mg/m
TWA: 10 ppm TWA: 44 mg/m³ Switzerland STEL: 40 ppm STEL: 176 mg/m³ TWA: 10 ppm TWA: 44 mg/m³ Poland TWA: 10 mg/m³ Ireland TWA: 23 ppm	Austria	STEL 40 ppm
TWA: 44 mg/m³		
Switzerland STEL: 40 ppm STEL: 176 mg/m³ TWA: 10 ppm TWA: 44 mg/m³ TWA: 10 mg/m³ Ireland TWA: 23 ppm		TWA: 10 ppm
STEL: 176 mg/m³ TWA: 10 ppm TWA: 44 mg/m³ Poland TWA: 10 mg/m³ Ireland TWA: 23 ppm	Out to a start of	I VVA: 44 mg/m²
TWA: 10 ppm TWA: 44 mg/m³ Poland TWA: 10 mg/m³ Ireland TWA: 23 ppm	Switzerland	STEL: 40 ppm
TWA: 44 mg/m³ Poland TWA: 10 mg/m³ Ireland TWA: 23 ppm		STEL: 1/6 mg/m
Poland TWA: 10 mg/m³ Ireland TWA: 23 ppm		I WA: 10 ppm
Ireland TWA: 23 ppm		
Ireland TWA: 23 ppm TWA: 100 mg/m³		
TWA: 100 mg/m ^o	Ireland	TWA: 23 ppm
		TWA: 100 mg/m³

8.2 Exposure controls

Appropriate engineering controls Good general ventilation should be sufficient under normal use.



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LC1240BK, LC1280XLBK Ink

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

рΗ

-/<-5 °C Melting point/freezing point Initial boiling point and boiling range > 100 °C Flash Point Not less than 93.3°C

(Tag closed cup; Cleveland open cup)

- 9

Evaporation rate No information available

Flammability (solid, gas) Not applicable No information available

Upper/lower flammability or explosive

limits

No information available Vapor pressure Vapor density No information available Relative density 1.0 - 1.1 (H₂O=1) Solubility(ies) Soluble (water) Partition coefficient: n-octanol/water No information available

Auto-ignition temperature >400 °C No information available

Decomposition temperature

Viscosity 2 - 5 mPa·s Explosive properties Not explosive

Oxidizing properties No information available

9.2 Other information

No information available.

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 (CO₂).



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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 $LD_{50} > 2000 \text{ mg/kg}$ (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)

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

umors.

Other ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA.



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Product name: LC12BK, LC17BK, LC40BK, LC71BK, LC73BK, LC75BK, LC77XLBK, LC79BK, LC400BK, LC450XLBK, LC1220BK, LC1240BK, LC1280XLBK Ink

SECTION 12: Ecological information

12.1 Toxicity

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

12.2 Persistance 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.

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 Not applicable

Code

ΕN

Not regulated under DOT, IMDG, IATA.



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LC1240BK, LC1280XLBK Ink

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

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

No.

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 2, 3.

U.S. 29CFR Part 1910 References:

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)



Issuing Date: 12-April-2010 Revision Date: 1-April -2015

Version: 6 SDS No: BHC021-01-EUUSOTHER

Product name: LC12C, LC17C, LC40C, LC71C, LC73C, LC75C, LC77XLC, LC79C, LC400C, LC450XLC, LC1220C, LC1240C,

LC1280XLC Ink

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

1.1 Product identifier

LC12C (LK5482001), LC17C (LK5478001), LC40C (LK6316001), LC71C (LK6002001), LC73C (LK6208001), LC75C (LK5474001), LC77XLC (LK6184001), LC79C (LK5470001), Product name (code)

LC400C (LK6152001), LC450XLC (LK6128001), LC1220C (LK6010001),

LC1240C (LK5703001, LK5828001), LC1280XLC (LK5707001)

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

Relevant Identified Use(s) These products are dark blue 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

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, Québec, 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

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

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

ΕN



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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	10-20	Not classified	Not classified
Diethylene glycol	111-46-6	203-872-2	1-9	Xn; R22	Acute Tox. 4 (H302)
Triethylene glycol monobutyl ether	143-22-6	205-592-6	1-5	Xi; R41	Eye Dam. 1 (H318)
Cyan Dye	*	*	1-5	Not classified	Not classified
Water	7732-18-5	231-791-2	65-75	Not classified	Not classified
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Xn; R22	Acute Tox. 4 (Oral), H302
				Xi; R41	Skin Irrit. 2, H315
				Xi; R38	Eye Dam. 1, H318
				R43	Skin Sens. 1, H317
				N; R50	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.

^{*} Registered



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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 dark blue 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 ³ mist
OSHA PEL	TWA: 15 mg/m ³ mist, total particulate
	TWA: 5 mg/m³ mist, respirable fraction
European Union	<u>-</u>
The United Kingdom	STEL: 30 mg/m ³
	TWA: 10 mg/m ³



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France	TWA: 10 mg/m ³
Spain	TWA: 10 mg/m ³
Germany	TWA: 50 mg/m ³
	Cailing / Danier 400 mar/m3

France	TWA: 10 mg/m³
Spain	TWA: 10 mg/m ³
Germany	TWA: 50 mg/m ³
·	Ceiling / Peak: 100 mg/m³
Portugal	TWA: 10 mg/m ³
Finland	TWA: 20 mg/m ³
Switzerland	STEL: 100 mg/m ³
	TWA: 50 mg/m ³
Poland	TWA: 10 mg/m ³
Ireland	TWA: 10 mg/m ³
Chemical Name	Diethylene glycol
	111-46-6
ACGIH TLV	
OSHA PEL	-
European Union	-
The United Kingdom	STEL: 69 ppm
3	STEL: 303 mg/m ³
	TWA: 23 ppm
	TWA: 101 mg/m ³
Germany	TWA: 10 ppm
•	TWA: 44 mg/m ³
	Ceiling / Peak: 40 ppm
	Ceiling / Peak: 176 mg/m ³
Denmark	TWA: 2.5 ppm
	TWA: 11 mg/m ³
Austria	STEL 40 ppm
	STEL 176 mg/m ³
	TWA: 10 ppm
	TWA: 44 mg/m ³
Switzerland	STEL: 40 ppm
	STEL: 176 mg/m ³
	TWA: 10 ppm
	TWA: 44 mg/m ³
Poland	TWA: 10 mg/m ³
Ireland	TWA: 23 ppm
	TWA: 100 mg/m ³

8.2 Exposure controls

Appropriate engineering controls Good general ventilation should be sufficient under normal use.

Not normally required. For use other than in normal operating procedures (such as in the event of Personal protective equipment

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.

Large spillages: Wear suitable respiratory protective equipment. Respiratory protection

Environmental Exposure Controls Avoid release to the environment.



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Product name: LC12C, LC17C, LC40C, LC71C, LC73C, LC75C, LC77XLC, LC79C, LC400C, LC450XLC, LC1220C, LC1240C, LC1280XLC Ink

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state Liquid Dark blue Color Odor Slight

Odor Threshold No information available

Melting point/freezing point -/<-5 °C > 100 °C Initial boiling point and boiling range

Flash Point Not less than 93.3°C

(Tag closed cup; Cleveland open cup) Evaporation rate No information available

Flammability (solid, gas) Not applicable

No information available

Upper/lower flammability or explosive

limits

Vapor pressure No information available Vapor density No information available Relative density 1.0 - 1.1 (H₂O=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.

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 (CO₂).



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

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 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		LC ₅₀ : 51 - 57 mL/L 96 h	EC ₅₀ : >500 mg/L 24 h
56-81-5		static (Oncorhynchus mykiss)	(Daphnia magna)
Diethylene glycol		LC ₅₀ : 75200 mg/L 96 h	EC ₅₀ : 84000 mg/L 48 h
111-46-6		flow-through (Pimephales	(Daphnia magna)
		promelas)	
Triethylene glycol monobutyl ether	EC ₅₀ : >500 mg/L 72 h	LC ₅₀ : 2200 - 4600 mg/L 96 h	EC ₅₀ : >500 mg/L 48 h
143-22-6	(Desmodesmus subspicatus)	static (Leuciscus idus)	(Daphnia magna)
		LC ₅₀ : 2400 mg/L 96 h	
		static (Pimephales promelas)	
		LC ₅₀ : 2400 mg/L 96 h	
		(Pimephales promelas)	

12.2 Persistance and degradability

No information available.

12.3 Bioaccumulative potential

Chemical Name	log Pow
Glycerol	-1.76
Diethylene glycol	-1.98
Triethylene glycol monobutyl ether	0.51

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

15.1 Safety, health and environmental 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 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)

ΕN



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LC1280XLM Ink

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

1.1 Product identifier

LC12M (LK5483001), LC17M (LK5479001), LC40M (LK6317001), LC71M (LK6003001), LC73M (LK6209001), LC75M (LK5475001), LC77XLM (LK6185001), LC79M (LK5471001), Product name (code)

LC400M (LK6153001), LC450XLM (LK6129001), LC1220M (LK6011001),

LC1240M (LK5704001, LK5829001), LC1280XLM (LK5708001)

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

Relevant Identified Use(s) These products are dark red 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 CHEMTREC

+1-703-527-3887 (International) (24 hours)

+1-800-424-9300 (North America)

For France only:

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

ΕN



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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).

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	10-20	Not classified	Not classified
Magenta Dye	*	*	<2.5	N; R51/53	Aquatic Chronic 2 (H411)
Water	7732-18-5	231-791-2	65-80	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

^{*} Registered



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LC1280XLM Ink

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

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.

Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to Ingestion

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.

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

ΕN

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.

Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure 5.3 Advice for firefighters

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.



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LC1280XLM Ink

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

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 dark red 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/m³ mist		
OSHA PEL	TWA: 15 mg/m ³ mist, total particulate		
	TWA: 5 mg/m³ mist, respirable fraction		
European Union	-		
The United Kingdom	STEL: 30 mg/m ³		
	TWA: 10 mg/m ³		
France	TWA: 10 mg/m ³		
Spain	TWA: 10 mg/m ³		
Germany	TWA: 50 mg/m ³		
-	Ceiling / Peak: 100 mg/m ³		
Portugal	TWA: 10 mg/m ³		
Finland	TWA: 20 mg/m ³		
Switzerland	STEL: 100 mg/m ³		
	TWA: 50 mg/m ³		
Poland	TWA: 10 mg/m ³		
Ireland	TWA: 10 mg/m ³		

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:



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LC1280XLM Ink

Eve Protection Safety goggles. Hand Protection Protective gloves.

Skin and body protection Long sleeved clothing and long pants.

Large spillages: Wear suitable respiratory protective equipment. Respiratory protection

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 Dark red Odor Slight

Odor Threshold No information available

7 - 9 -/<-5 °C Melting point/freezing point 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 No information available

Upper/lower flammability or explosive

No information available Vapor pressure Vapor density No information available Relative density 1.0 - 1.1 (H₂O=1) Solubility(ies) Soluble (water) Partition coefficient: n-octanol/water No information available >400 °C

Auto-ignition temperature Decomposition temperature

Viscosity 2 - 5 mPa·s Explosive properties Not explosive

Oxidizing properties No information available

9.2 Other information

No information available.

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.

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 (CO2).



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LC1280XLM Ink

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

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 Ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA

SECTION 12: Ecological information

12.1 Toxicity

assessment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol		LC ₅₀ : 51 - 57 mL/L 96 h	EC ₅₀ : >500 mg/L 24 h
56-81-5		static (Oncorhynchus mykiss)	(Daphnia magna)

12.2 Persistance and degradability

No information available.

12.3 Bioaccumulative potential

Chemical Name	log Pow
Glycerol	-1.76

12.4 Mobility in soil No information available.

12.5 Results of PBT and vPvB

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 effectsNo 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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LC1280XLM Ink

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.



Issuing Date: 12-April-2010 Revision Date: 1-April -2015

Version: 6 SDS No: BHM021–01-EUUSOTHER

Product name: LC12M, LC17M, LC40M, LC71M, LC73M, LC75M, LC77XLM, LC79M, LC400M, LC450XLM, LC1220M, LC1240M, LC420XLM, LC1220M, LC420XLM, LC1220M, LC420XLM, LC420XLM

LC1280XLM Ink

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

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

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

H411 - Toxic to aquatic life with long lasting effects

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 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)



Issuing Date: 12-April-2010 Revision Date: 1-April -2015

Version: 6

SDS No: BHY021-01-EUUSOTHER

Product name: LC12Y, LC17Y, LC40Y, LC71Y, LC73Y, LC75Y, LC77XLY, LC79Y, LC400Y, LC450XLY, LC1220Y, LC1240Y,

LC1280XLY Ink

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

1.1 Product identifier

LC12Y (LK5484001), LC17Y (LK5480001), LC40Y (LK6318001), LC71Y (LK6004001), LC73Y (LK6210001), LC75Y (LK5476001), LC77XLY (LK6186001), LC79Y (LK5472001), Product name (code)

LC400Y (LK6154001), LC450XLY (LK6130001), LC1220Y (LK6012001),

LC1240Y (LK5705001, LK5830001), LC1280XLY (LK5709001)

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

Relevant Identified Use(s) These products are dark yellow 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

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, Québec, 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

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

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

CHEMTREC (24 hours) +1-703-527-3887 (International)

+1-800-424-9300 (North America)

For France only:

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

ΕN



Issuing Date: 12-April-2010 Revision Date: 1-April -2015

Version: 6

SDS No: BHY021-01-EUUSOTHER

Product name: LC12Y, LC17Y, LC40Y, LC71Y, LC73Y, LC75Y, LC77XLY, LC79Y, LC400Y, LC450XLY, LC1220Y, LC1240Y, LC1280XLY Ink

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).



Issuing Date: 12-April-2010 Revision Date: 1-April -2015

Version: 6

SDS No: BHY021-01-EUUSOTHER

Product name: LC12Y, LC17Y, LC40Y, LC71Y, LC73Y, LC75Y, LC77XLY, LC79Y, LC400Y, LC450XLY, LC1220Y, LC1240Y, LC1280XLY Ink

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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
Triethylene glycol monobutyl ether	143-22-6	205-592-6	1-5	Xi; R41	Eye Dam. 1 (H318)
Yellow Dye	*	*	1-5	Not classified	Not classified
Water	7732-18-5	231-791-2	65-75	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.

^{*} Registered



Issuing Date: 12-April-2010 Revision Date: 1-April -2015

Version: 6

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Product name: LC12Y, LC17Y, LC40Y, LC71Y, LC73Y, LC75Y, LC77XLY, LC79Y, LC400Y, LC450XLY, LC1220Y, LC1240Y, LC1280XLY Ink

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 dark yellow 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/m³ mist		
OSHA PEL	TWA: 15 mg/m ³ mist, total particulate		
	TWA: 5 mg/m ³ mist, respirable fraction		
European Union	-		
The United Kingdom	STEL: 30 mg/m ³		
	TWA: 10 mg/m ³		



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SDS No: BHY021-01-EUUSOTHER

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France	TWA: 10 mg/m ³
Spain	TWA: 10 mg/m ³
Germany	TWA: 50 mg/m ³
	Ceiling / Peak: 100 mg/m ³
Portugal	TWA: 10 mg/m ³
Finland	TWA: 20 mg/m ³
Switzerland	STEL: 100 mg/m ³
	TWA: 50 mg/m ³
Poland	TWA: 10 mg/m ³
Ireland	TWA: 10 mg/m ³

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 Dark yellow
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 No information available

limits

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 avoidNo information available.

10.5 Incompatible materials Strong oxidizing agents.

10.6 Hazardous decomposition

products

ΕN

Contains: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

InhalationNo information available.Eye contactNo information available.Skin contactNo information available.

Ingestion $LD_{50} > 2000 \text{ mg/kg}$ (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 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		LC ₅₀ : 51 - 57 mL/L 96 h	EC ₅₀ : >500 mg/L 24 h
56-81-5		static (Oncorhynchus mykiss)	(Daphnia magna)
Triethylene glycol monobutyl ether	EC ₅₀ : >500 mg/L 72 h	LC ₅₀ : 2200 - 4600 mg/L 96 h	EC ₅₀ : >500 mg/L 48 h
143-22-6	(Desmodesmus subspicatus)	static (Leuciscus idus)	(Daphnia magna)
		LC ₅₀ : 2400 mg/L 96 h	
		static (Pimephales promelas)	
		LC ₅₀ : 2400 mg/L 96 h	
		(Pimephales promelas)	

12.2 Persistance and degradability

No information available.

12.3 Bioaccumulative potential

Chemical Name	log Pow	
Glycerol	-1.76	
Triethylene glycol monobutyl ether	0.51	

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 effectsNo information available.

SECTION 13: Disposal considerations

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

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

Not applicable

Code

ΕN

Not regulated under DOT, IMDG, IATA.



Issuing Date: 12-April-2010 Revision Date: 1-April -2015

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Product name: LC12Y, LC17Y, LC40Y, LC71Y, LC73Y, LC75Y, LC77XLY, LC79Y, LC400Y, LC450XLY, LC1220Y, LC1240Y, LC1280XLY Ink

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

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

No.

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).

Revision Note SECTION 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)