

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,

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



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

Version: 6

SDS No: BHM021-01-EUUSOTHER

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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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Version: 6 SDS No: BHM021-01-EUUSOTHER

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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

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.



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, LC4200YLM Let

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

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 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/m ³ 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:



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, LC1220VI M Jok

LC1280XLM Ink

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 red
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

imits

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 avoidNo information available.

10.5 Incompatible materials Strong oxidizing agents.

10.6 Hazardous decomposition

products

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



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

Version: 6

SDS No: BHM021-01-EUUSOTHER

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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.



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

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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.



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, LC1220VI M Jok

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)

ΕN