

Product Name LC103M, LC105M, LC113M, LC115M, LC123M, LC125XLM, LC133M, LC135XLM, LC563M, LC565M, LC573M, LC575XLM, LC583M, LC585M, LC593M, LC595XLM lnk

Date: Issued: 26 October 2011 Revised: 26 September 2012 Version Number: 4 SDS No.: BHM023–01–EUUSOTHER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/LINDERTAKING

SEG H	ON 1: IDENTIFICATION OF THE SUBSTAN	NCE/MIXTURE /	AND OF THE CO	OMPANY/UNDE	RTAKING	
1.1	Product identifier		ALL ALL MATERIAL SAME CANADA C	CONTRACTOR OF THE STATE OF THE	THE COMMUNICATION OF THE PROPERTY OF THE PROPE	
	Product Name:	LC103M	LC105M	LC113M	LC115M	
	Product Code:	LK6539001	LK6578001	LK6870001	LK6902001	
	Product Name:	LC123M	LC125XLM	LC133M	LC135XLM	
	Product Code:	LK6812001	LK6926001	LK7244001	LK7211001	
	Product Name:	LC563M	LC565M	LC573M		
	Product Code:	LK6972001	LK6976001		LC575XLM	
	Product Name:			LK6984001	LK6988001	
	Product Code:	LC583M	LC585M	LC593M	LC595XLM	
1.2		LK7003001	LK7007001	LK7015001	LK7019001	
1.2	Relevant identified uses of the substance or mixtu	mixture and uses advised against These products are dark red ink in a cartridge for Brother Industries, I				
	Identified use(s):				ndustries, Ltd.	
		inkjet multifunction devices and fax receivers.				
			ıld be used as suppli			
			formation provided o	on this SDS is only o	consistent with the	
		use specified by B	rother.			
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				
		l elephone (for info	rmation): +81-52-82	4-2735		
	Importer (USA):	Brother International Corporation 100 Somerset Corporate Boulevard, Bridgewater, NJ 08807-				
					7-	
		0911, USA		-		
		Telephone (for information): +1-800-284-4329				
	Importer (Canada):	Brother International Corporation (Canada) Ltd. 1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada Telephone (for information): +1-514-685-0600 Brother International Europe Ltd.				
	importor (oundua).					
	Importer (Europe):					
	importer (Europe).	Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M3-			, Manchester M34	
		5JE, UK				
		Telephone (for info	rmation): +44-161-3	30-6531		
	Importer (Australia):	Brother International (Aust.) Pty. Ltd. ACN 001 393 835				
	, , , , , , , , , , , , , , , , , , ,		, 11 Talavera Road,		SW 2113, Australia	
		Telephone (for info	rmation): +61-2-988	7-4344		
	E-Mail (competent person):	sds.info@brother.c	co.jp			
	= man (compositing porcess).					
1.4	Emergency telephone number	CHEMTREC				
	Emergency Phone No. (24 hours)	+1-703-527-3887 (International)				
		+1-800-424-9300 (North America)			
		For France only:				
		Antipoison Centre	telephone number: C	RFILA +33-1-45-42	25-959	
SECTION	ON 2: HAZARDS IDENTIFICATION		nen usahlur aktu	Sand on Sales and a second		

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2.1	Classification of the substance or mixture EU Classification:	Not classified as hazardous according to EU Directive 1999/45/EC.
	Australia Classification:	Not classified as hazardous according to the criteria of NOHSC.
2.2	Label elements	Label elements according to EU Directive 1999/45EC.: None
2.3	Other hazards	None



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

LC103M, LC105M, LC113M, LC115M, LC123M, LC125XLM, LC133M, LC135XLM, LC563M, LC565M, LC573M, LC575XLM, LC583M, LC585M, LC593M, LC595XLM Ink

Chemical Name	CAS No.	EC No.	%W/W	EU Hazard Symbols	EU Risk Phrases
Glycerol	56-81-5	200-289-5	10 - 20	-	i n .
Magenta Dye	Registered	Registered	< 2.5	N	R51/53
Water	7732-18-5	231-791-2	65 - 80	-	i -

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

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

fresh air and keep at rest.

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

plenty of water or soap and water.

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

wash out with plenty of water for at least 15 minutes.

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

200-300 ml (half a pint) of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

acute and delayed

If symptoms persist, obtain medical attention.

4.3 Indication of any immediate medical attention

and special treatment needed

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media: Unsuitable Extinguishing Media: Extinguish preferably with dry chemical, Carbon dioxide, Water, Foam. None.

5.2 Special hazards arising from the substance or

mixture

5.3 Advice for fire-fighters

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 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 In case of ink vapor formation, use respirator.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

See Section: 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Keep out of the reach of children. Avoid contact with skin. Avoid contact with

eves

7.2 Conditions for safe storage, including any

incompatibilities

Keep out of the reach of children. 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.

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits:

Substance	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV	
Glycerol	56-81-5	15 mg/m³ (total dust)	10 mg/m³ (mist)	Not established	

8.2 Exposure controls Observe local regulations.

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

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

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

Eye/face protection Goggles.

Skin protection Protective gloves.

Respiratory protection Large spillages: Wear suitable respiratory protective equipment.

Other: Not applicable.

Environmental Exposure Controls Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (20 $^{\circ}$ C) Liquid. Color. Dark red. Odor Slight. Odor threshold (ppm) No data. pH (Value) 7 - 9

Melting point (°C) / Freezing point (°C) No data / < -5

Boiling point/boiling range (°C): >100

Flash point (°C) Not less than 93.3°C

(Tag closed cup & Cleveland open cup)

Relative Evaporation Rate (Butyl acetate = 1) No data. Flammability (solid, gas) No data. Explosive limit ranges No data. Vapor pressure (Pa) No data. Vapor density (Air=1) No data. Density (g/ml) 1.0 - 1.1 Solubility (Water) Soluble. Solubility (Other) No data. Partition coefficient (n-Octanol/water) No data. Auto ignition point (°C) > 400 Decomposition temperature (°C) No data.



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Viscosity (mPa. s) 2 - 5
Explosive properties No data.
Oxidising properties No data.
Other information None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Not available.
10.2 Chemical stability Stable.
10.3 Possibility of hazardous reactions Not available.
10.4 Conditions to avoid None.

10.5 Incompatible materials Strong oxidizing agents.

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Ingestion: Acute LD₅₀ > 2000mg/kg (OECD No.420).

Unlikely route of exposure. Ingestion may cause irritation of the

gastrointestinal tract.

Inhalation: Unlikely route of exposure. No data.
Skin Contact: Non-irritant. (OECD No.404)

Eye Contact: Minimal irritant to the eye. (OECD No.405)

Skin corrosion/irritation: Repeated and/or prolonged skin contact may cause irritation.

Serious eye damage/irritation: May cause eye irritation.

Respiratory or skin sensitization: It is not a skin sensitizer. (OECD No.429)

Mutagenicity: Negative. (OECD No.471)

Carcinogenicity: Ingredients of this product have not been classified as carcinogens

according to IARC monographs, NTP and OSHA.

Reproductive toxicity:

STOT-single exposure:

STOT-repeated exposure:

Aspiration hazard:

Potential Health Effects:

No data

Not applicable.

No data.

SECTION 12: ECOLOGICAL INFORMATION

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

 12.1
 Toxicity
 No data.

 12.2
 Persistence and degradability
 No data.

 12.3
 Bioaccumulative potential
 No data.

 12.4
 Mobility in soil
 No data.

 12.5
 Results of PBT and vPvB assessment
 No data.

 12.6
 Other adverse effects
 No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Dispose of in compliance 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 **Proper Shipping Name** 14.2 None. Transport hazard class(es) 14.3 None. 14.4 **Packing Group** None. **Environmental hazards** 14.5 None. Special precautions for user 14.6 None.

4.7 Transport in bulk according to Annex II of Not applicable. MARPOL73/78 and the IBC Code

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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 components of this product are listed on the TSCA Inventory.

WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Hazard Symbol: Risk Phrases:

N: Dangerous for the environment.

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

in the aquatic environment.

The following sections contain revisions or new statements: Formals, All Sections,

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).

References:

U.S. 29CFR Part 1910

ACGIH Threshold Limit Values for Chemical Substances and Physical

Agents and Biological Exposure Indices

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

IARC Monographs on the Evaluation Carcinogenic Risks to Humans

World Health Organization

NTP 11th Report on Carcinogens

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists ADR: European Agreement concerning the International carriage of

Dangerous goods by Road (EU)
DOT: Department Of Transportation (US)

EINECS: European Inventory of Existing Commercial Chemical

Substances

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

NOHSC: National Occupational Health and Safety Commission

(Australia)

NTP: National Toxicology Program (US)

OSHA: Occupational Safety and Health Administration (US)

PEL: Permissible Exposure Limit

RID: Regulations concerning the International carriage of goods by Rail

(EU)

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

WHMIS: Workplace Hazardous Material Information System (Canada)