

Product Name LC11M, LC16M, LC38M, LC39M, LC60M, LC61M, LC67M, LC975M, LC980M, LC985M, LC990M, LC1100M, LC65HY-M, LC67HY-M, LC990HY-M, LC1100HY-M Ink

Version Number: 9 SDS No.: BHM018-01-EUUSOTHER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

COMPANY/UNDERIAN				
Product Name:	LC11M	LC16M	LC38M	LC39M
Product Code:	LK3638001,	LK3534001,	LK3662001,	LK5406001
	LK4691001	LK4711001	LK4197001	
Product Name:	LC60M	LC61M	LC67M	LC975M
Product Code:	LK5730001	LK3367001,	LK3670001,	LK5671001
Troduct Obde.	LI(3/30001	LK4298001	LK4223001	EK3071001
Due duret Neuron	1.000014			1.0110014
Product Name:	LC980M	LC985M	LC990M	LC1100M
Product Code:	LK3375001,	LK4622001,	LK4462001	LK3573001,
	LK4049001	LK5402001		LK3986001
Product Name:	LC65HY-M	LC67HY-M	LC990HY-M	LC1100HY-M
Product Code:	LK3292001,	LK3532001,	LK3533001,	LK3531001,
	LK4331001	LK4278001	LK4482001	LK4022001
Use:	These product	s are dark red ink	in a cartridge for	Brother Industries, Ltd. inkjet
0001		levices and fax re		
				her and for use in the products
				consistent with the use specified
	by Brother.	ation provided on		consistent with the use specified
	by biotilei.			
Manufacturer:	Brother Indust	rios I td		
พลานใส่นี่เนายา.				
		-cho, Mizuho-ku,		
	Nagoya 467-8	561,		
	Japan			
	l elephone (for	r information): +8	1-52-824-2735	
Importer USA:		ational Corporatio		
		, 100 Somerset C	Corporate Bouleva	ard, Bridgewater, NJ 08807-
	0911, USA			
	Telephone (for	r information): +1-	800-284-4329	
Importer Consider	Drothar Intern	ational Corporatio	n (Canada) I td	
Importer Canada:		ational Corporatio		
				19B 3H6, Canada
	l elephone (fo	r information): +1-	514-685-0600	
Importer Europe:	Brothor Intorn	ational Europe Lto	4	
importer Europe.				denshaw, Manchester M34 5JE,
	UK	, TTame Street,	Guide Bridge, Au	denshaw, Manchester M34 55E,
	•••	r information): +44	1 161 220 6521	
	reiephone (io	11110111ation). +44	+-101-330-0531	
Importor Austrolia	Prother Intern	ational (Aust.) Dty		02 825
Importer Australia:			. Ltd. ACN 001 3	
				e Park, NSW 2113, Australia
	l elephone (for	r information): +6	1-2-9887-4344	
Emanuel Dhana M				
Emergency Phone No.:	CHEMTREC	07 (lata 1'	1	
		887 (International		
	+1-800-424-93	300 (North Americ	a)	
	For France on	lv.		
			mber: ORFILA +3	3-1-45-425-959
E-mail address for information:	sds.info@brot	her.co.jp		
2. HAZARDS IDENTIFICA	TION			

Potential health effects from	Routes of exposure: skin contact, eye contact, ingestion.
overexposure:	Thermal decomposition will evolve toxic and irritant vapors.
	Combustion products: See Section: 10.



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Potential Health Effects:	Routes of exposure: skin contact, eye contact, and ingestion.
	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.
	CHRONIC (CANCER) INFORMATION / CARCINOGENICITY: All ingredients of ink have not been classified as carcinogens according to IARC monographs, NTP, and OSHA.
EU Classification:	Not classified as hazardous according to EU Directive 1999/45/EC. But ink has to bear the inscription: "Contains water soluble heterocyclic magenta azo dye compounds. May produce an allergic reaction."
Australia Classification:	Not classified as hazardous according to the criteria of NOHSC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chamical	Nomo
Chemical	Name:

Water based inkjet ink (Mixture).

Chemical Name	CAS No.	EC No.	%W/W	EU Hazard Symbols	EU Risk Phrases
Glycerol	56-81-5	200-289-5	10 - 30	Not classified.	Not classified.
Diethylene glycol	111-46-6	203-872-2	1 - 5	Xn	R22
Magenta Dye	Registered	Registered	1 - 4	Xi, N	R36, R43, R51/53
(FJM-001B)					
Water	7732-18-5	231-791-2	50 - 70	Not classified.	Not classified.

4. FIRST AID MEASURES

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

5. FIRE-FIGHTING MEASURES

General:	Flammable properties: Auto Ignition Temperature (°C): >400 Flammability: LEL: Not available. UEL: Not available. Flash Point: Does not flash (> 93.3 °C) (Tag Closed cup and Cleveland Open cup)
Extinguishing Media:	Extinguish preferably with dry chemical, Carbon dioxide, Water, Foam.
Unsuitable Extinguishing Media:	None.



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Special firefighting procedures:	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.
Unusual fire and explosion hazards:	Thermal decomposition of organic components may result in occurrence of oxides of carbon. Toxic gasses may be formed upon combustion and represents a hazard to firefighters. Combustion products: See Section: 10.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:	In case of ink vapor formation, use respirator.
Environmental Precautions:	Prevent substance entering sewers. Washings must be prevented from entering surface water drains.
Methods for Cleaning Up:	Wipe up with absorbent towel. Wash with water to remove remaining traces of ink. DISPOSAL CONSIDERATIONS - See Section: 13.

7. HANDLING AND STORAGE

Handling:

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

Storage:

Keep out of the reach of children. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

 Ventilation:
 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:

 Eve/face:
 Googles

Eye/face: Goggles. Skin: Protective gloves. Large spillages: Wear suitable respiratory protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH (Value): Form: Color: Odor: Boiling Point (°C): Melting Point (°C): Freezing Point (°C): Vapor Pressure (Pascal): Viscosity (mPa.s): Flash Point (°C): 7 - 9 Liquid. Dark red. Slight. >100 Not applicable. < -5 No data. 2 - 5 Does not flash (> 93.3 °C) (Tag Closed cup Cleveland Open cup) Not available.

Flammable Limits (Upper) (%v/v):



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Flammable Limits (Lower) (%v/v): Explosive Properties: Auto Ignition Temperature (°C): Density (g/ml): Vapor Density (Air=1): Partition Coefficient (n-Octanol/water): Relative Evaporation Rate (Ether=1): Oxidizing Properties: Solubility (Water): Not available. Not applicable. > 400 ca. 1.06 No data. No data. No data. No data. Soluble.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to avoid:	None.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Product(s):	Contains: Carbon monoxide and Carbon dioxide.
Hazardous polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Ingestion:	Acute LD ₅₀ > 2000mg/kg (Method: OECD#420)
Skin Contact:	Non-irritant. (Method: OECD#404)
Eye Contact:	Mild irritant to the eye. (Method: OECD#405)
Mutagenicity:	Negative. (Method: OECD#471)
Skin sensitization:	It is not a skin sensitizer. (Method: OECD#429)

Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA.

12. ECOLOGICAL INFORMATION

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

Toxicity: No data.

Environmental Fate and Distribution: No data.

Persistence and Degradation: No data.

13. DISPOSAL CONSIDERATIONS

Dispose of in compliance with Federal, State and local regulations.

14. TRANSPORT INFORMATION

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

UN No.: Class: None. None.

Not regulated under DOT, IMDG, IATA.



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15. **REGULATORY INFORMATION**

USA:	All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).
EU:	Not classified as dangerous for supply/use. (1999/45/EC, 67/548/EEC) But ink has to bear the inscription: "Contains water soluble heterocyclic magenta azo dye compounds. May produce an allergic reaction." Hazard Symbol, Risk Phrases, Safety Phrases: None assigned.
Canada:	WHMIS: Not applicable. (Manufactured article)

16. OTHER INFORMATION

The following sections contain revisions or new statements: All sections (Version Number 7). The following sections contain revisions or new statements: Section 1 (Version Number 8 and Version Number 9).

EU Hazard Symbols Xn: Harmful. Xi: Irritant. N: Dangerous for the environment.

Risk Phrases:

R22: Harmful if swallowed. R36: Irritating to eyes. R43: May cause sensitization by skin contact. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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).
Reference:	 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 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)