

Product Name LC11C, LC16C, LC38C, LC39C, LC60C, LC61C, LC67C, LC975C, LC980C, LC985C, LC990C, LC1100C, LC65HY-C, LC67HY-C, LC990HY-C, LC1100HY-C Ink

Version Number: 8 SDS No.: BHC018-01-EUUSOTHER

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

COMPANY/UNDERTAKIN	G			
Product Name:	LC11C	LC16C	LC38C	LC39C
Product Code:	LK3637001,	LK3526001,	LK3661001,	LK5405001
	LC4690001	LK4710001	LK4196001	
				1 00350
Product Name:	LC60C	LC61C	LC67C	LC975C
Product Code:	LK5729001	LK3366001,	LK3669001,	LK5670001
		LK4297001	LK4222001	
Product Name:	LC980C	LC985C	LC990C	LC1100C
Product Code:	LK3374001,	LK4621001,	LK4461001	LK3572001,
Flouuci Coue.			LI(4401001	
	LK4048001	LK5401001		LK3985001
Product Name:	LC65HY-C	LC67HY-C	LC990HY-C	LC1100HY-C
Product Code:	LK3291001,	LK3524001,	LK3525001,	LK3523001,
	LK4330001	LK4277001	LK4481001	LK4021001
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Use:				r Brother Industries, Ltd. inkjet
		evices and fax re		
	The cartridge s	hould be used as	s supplied by Brotl	ner and for use in the products
	stated. Information	ation provided on	this SDS is only of	consistent with the use specified
	by Brother.	•		•
	-,			
Manufacturary	Drother Indust	ioo I td		
Manufacturer:	Brother Industr			
		cho, Mizuho-ku,		
	Nagoya 467-85	561,		
	Japan			
		information): +81	-52-824-2735	
			02 02 1 27 00	
lana antan 110 A	Duath au listeurs	tional Componition	-	
Importer USA:		tional Corporation		
		, 100 Somerset C	orporate Bouleva	rd, Bridgewater, NJ 08807-
	0911, USA			
	Telephone (for	information): +1-	800-284-4329	
Importer Canada:	Brother Interna	tional Corporatio	n (Canada) Ltd.	
P				I9B 3H6, Canada
		information): +1-		iob or io, Gallada
			514-005-0000	
	.			
Importer Europe:		tional Europe Ltd		
	Brother House	, 1 Tame Street, (Guide Bridge, Auc	lenshaw, Manchester M34 5JE,
	UK			
	Telephone (for	information): +44	-161-330-6531	
	i (,		
Incomentary Acceduration	Ducto au listema	tional (Aust) Dtu		0.005
Importer Australia:			Ltd. ACN 001 39	
				Park, NSW 2113, Australia
	Telephone (for	information): +61	-2-9887-4344	
Emergency Phone No.:	CHEMTREC			
		87 (International)	
	+1-800-424-93	00 (North Americ	a)	
	F F			
	For France onl			
	Antipoison Cer	iter telephone nui	mber: ORFILA +3	3-1-45-425-959
E-mail address for information:	sds.info@broth	ier.co.jp		
2. HAZARDS IDENTIFICATION				

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.
Australia Classification:	Not classified as hazardous according to the criteria of NOHSC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	Name
Cileinicai	iname.

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
Triethylene glycol monobutyl ether	143-22-6	205-592-6	1 - 4	Xi	R41
Copper Phthalocyanine derivative dye	Registered	445-470-1	1 - 4	Xi	R41, R52/53
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.
	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:

SUBSTANCE	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
Glycerol	56-81-5	(as mist) Total Dust TWA 15mg/m ³ Respirable Fraction TWA 5mg/m ³	(as mist) TWA 10mg/m³	None.

Environmental Exposure Controls:Not normally required.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:

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 blue. Slight. >100 Not applicable. < 0 No data. 2 - 5 Does not flash (> 93.3 °C) (Tag Closed cup Cleveland Open cup)



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Flammable Limits (Upper) (%v/v): 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 available. Not applicable. > 400 ca. 1.07 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:	Minimal 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.:	None
Class:	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) 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 6). The following sections contain revisions or new statements: Section 1 (Version Number 7 and Version Number 8).

EU Hazard Symbols Xn: Harmful. Xi: Irritant.

Risk Phrases:

R22: Harmful if swallowed.R41: Risk of serious damage to eyes.R52/53: Harmful 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 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)