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# SAFETY DATA SHEET

**Product Name** LC103Y, LC105Y, LC113Y, LC115Y, LC123Y, LC125XLY, LC133Y, LC135XLY, LC563Y, LC565Y, LC573Y, LC575XLY, LC583Y, LC585Y, LC593Y, LC595XLY Ink

Date: Issued: 26 October 2011 Revised: 26 September 2012 Version Number: 4 SDS No.: BHY023-01-EUUSOTHER

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

ION 1: IDENTIFICATION OF THE SU	JBSTANCE/MIXTUR	E AND OF THE	COMPANY/UNI	DERTAKING			
Product identifier							
Product Name:	LC103Y	LC105Y	LC113Y	LC115Y			
Product Code:	LK6540001	LK6579001	LK6871001	LK6903001			
Product Name:	LC123Y	LC125XLY	LC133Y	LC135XLY			
Product Code:	LK6813001	LK6927001	LK7245001	LK7212001			
Product Name:	LC563Y	LC565Y	LC573Y	LC575XLY			
Product Code:	LK6973001	LK6975001	LK6985001	LK6989001			
Product Name:	LC583Y	LC585Y	LC593Y	LC595XLY			
Product Code:	LK7004001	LK7008001	LK7016001	LK7020001			
Relevant identified uses of the substance			2117010001	211, 020001			
Identified use(s):		are dark yellow ink	in a cartridge for Bro	ther Industries, Ltd.			
Salara Carana Ca	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					
	\$ \$0.000,000 or to a series of a series \$10.000	use specified by Brother.					
Details of the supplier of the safety data s							
Manufacturer:		Brother Industries, Ltd.					
		15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan					
	Telephone (for	information): +81-52-	-824-2735				
Importer (USA):	100 Somerset ( 0911, USA	Brother International Corporation 100 Somerset Corporate Boulevard, Bridgewater, NJ 08807- 0911, USA Telephone (for information): +1-800-284-4329					
Importer (Canada):	1 Hotel de Ville	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 House, 5JE, UK	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):	Level 3, Buildin	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 (competent person):	sds.info@broth	sds.info@brother.co.jp					
Emergency telephone number	CHEMTREC						
Emergency Phone No. (24 hours)	+1-703-527-38	+1-703-527-3887 (International)					

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+1-703-527-3887 (International) +1-800-424-9300 (North America)

For France only:

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

### **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture Not classified as hazardous according to EU Directive 1999/45/EC. EU Classification:

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

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Chemical Name	CAS No.	EC No.	%W/W	EU Hazard Symbols	EU Risk Phrases
Glycerol	56-81-5	200-289-5	5 - 15	150	-
Triethylene glycol monobutyl ether	143-22-6	205-592-6	1 - 5	Xi	R41
Yellow dye	Registered	Registered	1 - 5	-	=
Water	7732-18-5	231-791-2	65 - 75		=

#### 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

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.

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

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

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 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 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 °C)

Liquid.

Color.

Dark yellow. Slight.

Odor

No data.

Odor threshold (ppm)

7 - 9

pH (Value)
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. No data.

Flammability (solid, gas) Explosive limit ranges

No data. No data. No data.

Vapor pressure (Pa) Vapor density (Air=1) Density (g/ml) Solubility (Water)

1.0 - 1.1 Soluble.

Solubility (Other)
Partition coefficient (n-Octanol/water)

No data.

Auto ignition point (°C)
Decomposition temperature (°C)

> 400 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  $LD_{50} > 2000 mg/kg$  (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. Results of PBT and vPvB assessment 12.5 No data. Other adverse effects No data.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

3.1 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'.

**UN** number 14.1 None. **Proper Shipping Name** None. 14.3 Transport hazard class(es) None. **Packing Group** None. 14.5 Environmental hazards None. Special precautions for user 14.6 None. Transport in bulk according to Annex II of 14.7 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

No.

#### **SECTION 16: OTHER INFORMATION**

Hazard Symbol: Risk Phrases:

Xi: Irritant.

R41: Risk of serious damage to eyes.

The following sections contain revisions or new statements: Formats, 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)