

Product Name: LC12Y, LC17Y, LC40Y, LC71Y, LC73Y, LC75Y, LC77XLY, LC79Y, LC400Y, LC450XLY, LC1220Y, LC1240Y, LC1280XLY Ink

Revision Date: 15-Jun-2020 Issuing Date: 12-Apr-2010 Revision Number: 7

Safety data sheet number: BHY021-01

1. Identification			
Product identifier			
Product Name	LC12Y, LC17Y, LC40Y, LC71Y, LC73Y, LC75Y, LC77XLY, LC79Y, LC400Y, LC450XLY, LC1220Y, LC1240Y, LC1280XLY Ink		
Other means of identification			
Safety data sheet number	BHY021-01		
Recommended use of the chemica	al and restrictions on use		
Recommended Use	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.		
Uses advised against	No information available		
Details of manufacturer or imported	<u>er</u>		
<u>Manufacturer</u> Brother Industries, Ltd. 15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan Telephone (for information): +81-52-824-2735 <u>Importer</u> 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			
For further information, please conta	<u>ct</u>		
Contact Point	Product Safety Department		
E-mail address	sds.info@brother.co.jp		
Emergency telephone number			
Emergency telephone number	No information available		
2. Hazard(s) identification			
GHS Classification			

Not classified



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Label elements

Not classified

Hazard statements

Not classified

Other hazards which do not result in classification

General 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).

3. Composition/information on ingredients

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%
Water	7732-18-5	65-75
Glycerol	56-81-5	5-15
Yellow Dye	**	1-5
Triethylene glycol, monobutyl ether	143-22-6	1-5
1,2-Benzisothiazolin-3-one	2634-33-5	<0.05
Non-hazardous ingredients	Proprietary	Balance

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4. First-aid measures

Description of first aid measures

General advice	If symptoms persist, call a physician.
Emergency telephone number	Poisons Information Center, Australia: 13 11 26 Poisons Information Center, New Zealand: 0800 764 766
Inhalation	Get immediate medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Eye contact	Get immediate medical advice/attention. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes.
Skin contact:	Take off contaminated clothing. Wash off immediately with soap and plenty of water.



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 Ingestion
 Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.

 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: May cause stomach ache. Unlikely route of exposure Inhalation : Unlikely route of exposure

 Indication of any immediate medical attention and special treatment needed
 Treat symptomatically.

5. Fire-fighting measures Suitable Extinguishing Media		
Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or regular foam	
Unsuitable extinguishing media	None.	
Specific hazards arising from the chemical	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.	
Special protective actions for fire-fighters		
Special protective equipment for fire-fighters	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.	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
Personal precautions	Ensure adequate ventilation. Avoid contact with eyes.		
For emergency responders	Use personal protection recommended in Section 8.		
Environmental precautions			
Environmental precautions	Prevent substance entering sewers. Washings must be prevented from entering surface water drains.		



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Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Wipe up with absorbent towel Wash with water to remove remaining traces of ink.		
Precautions to prevent secondary hazards			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Reference to other sections	See section 8 for more information. See section 13 for more information.		

7. Handling and storage

Precautions for safe handling		
Advice on safe handling	Keep out of the reach of children. Avoid contact with skin and eyes.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep away from oxidizing agents	
Incompatible materials	Strong oxidizing agents	

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	Australia	ACGIH TLV
Glycerol	10 mg/m ³	
56-81-5	_	

Appropriate engineering controls

Engineering controls Good general ventilation should be sufficient under normal use.

Individual protection measures, such as personal protective equipment

Eye/face protectionIf there is a risk of contact:. Safety goggles.Skin and body protectionIf there is a risk of contact:. Long sleeved clothing and long pants.Hand protectionIf there is a risk of contact:. Protective gloves.



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Respiratory protection

In case of large spillages: Wear suitable respiratory protective equipment.

Environmental exposure controls Avoid release to the environment.

9. Physical and chemical properties

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Information on basic physical and	chemical properties	
Physical state	Liquid	
Appearance	No information available	
Color	dark yellow	
Odor	Slight.	
Odor threshold	No information available	
Property	<u>Values</u>	Remarks • Method
рН	7 - 9	
Melting point / freezing point	< -5 °C	
Boiling point / boiling range	> 100 °C	
Flash point	> 94 °C	Tag Closed Cup Cleveland Open Cup
Evaporation rate	No data available	None known
Flammability (solid, gas)	Not applicable	
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	1 - 1.1	(H ₂ O=1)
Water solubility	Soluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	> 400 °C	
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	2 - 5 mPas	
Explosive properties	Not explosive	
Oxidizing properties	No information available	
Other Information		
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	

10. Stability and reactivity

Reactivity

Reactivity

No information available.

EN / UGHS



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Chemical stability			
Stability	Stable under normal conditions.		
Explosion data Sensitivity to Mechanical Impac	t None.		
Sensitivity to Static Discharge	None.		
Possibility of hazardous reactions			
Possibility of hazardous reactions	No information available.		
Conditions to avoid			
Conditions to avoid	No information available.		
Incompatible materials			
Incompatible materials	Strong oxidizing agents.		
Hazardous decomposition products			
Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO ₂).			

11. Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Numerical management of towisity	Dreduct Information
Symptoms	No information available.
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)
Skin contact:	No information available
Eye contact	No information available
Inhalation	No information available

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<u>Numerical measures of toxicity</u> - Product Information No information available

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (dermal)25,406.10 mg/kg



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Unknown acute toxicity

25 % of the mixture consists of ingredient(s) of unknown toxicity

5.2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

5.2 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

25 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

25 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

10.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	>90 mL/kg (Rat)	-	-
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat)1 h
Triethylene glycol, monobutyl ether	= 5300 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
1,2-Benzisothiazolin-3-one	= 1020 mg/kg (Rat)	-	-

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Non-irritant. (OECD 404 method).
Serious eye damage/eye irritation	Minimal irritant to the eye. (OECD 405 method).
Respiratory or skin sensitization	It is not a skin sensitizer (OECD 429 method)
Germ cell mutagenicity	AMES test : Negative (OECD 471 method)
Carcinogenicity	Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA

12. Ecological information

Ecotoxicity

Ecotoxicity

Unknown aquatic toxicity

 $0.3\ \%$ of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
			5	500.041 B. I. I
Glycerol	-	51 - 57: 96 h	-	500: 24 h Daphnia magna
		Oncorhynchus mykiss		mg/L EC50
		mL/L LC50 static		_



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Triethylene glycol, monobutyl ether	500: 72 h Desmodesmus subspicatus mg/L EC50	2400: 96 h Pimephales promelas mg/L LC50 static 2400: 96 h	-	500: 48 h Daphnia magna mg/L EC50
		Pimephales promelas mg/L LC50 2200 - 4600:		
		96 h Leuciscus idus mg/L LC50 static		

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient	
Glycerol	-1.76	
Triethylene glycol, monobutyl ether	0.51	
1,2-Benzisothiazolin-3-one	1.3	

Mobility

Mobility in soil No information available.

Other adverse effects

Other adverse effects No information available.

13. Disposal considerations			
Waste treatment methods			
Waste from residues/unused	Dispose in accordance with federal, state and local regulations.		

products

14. Transport information		
ADG	Not regulated	
IATA_	Not regulated	
IMDG	Not regulated	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable



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15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations

Australia

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP) No poisons schedule number allocated

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

Issuing Date 12-Apr-2010

Revision Date Jun-15-2020

Revision Note

The symbol (*) in the margin of this SDS indicates that this line has been revised.



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	abbreviations and acronyms used in the s N 8: EXPOSURE CONTROLS/PERSONAL F TWA (time-weighted average) Maximum limit value Carcinogen		STEL (Short Term Exposure Limit) Trade secret
U.S. Environment: European Food S EPA (Environmen Acute Exposure G U.S. Environment U.S. Environment Food Research Jo Hazardous Substa International Unifo Japan GHS Class Australia National NIOSH (National I National Library of National Library of National Library of National Toxicolog New Zealand's Ch Organization for E Organization for E	ance Database orm Chemical Information Database (IUCLID) ification Industrial Chemicals Notification and Assessr nstitute for Occupational Safety and Health) f Medicine's ChemID Plus (NLM CIP) f Medicine's PubMed database (NLM PUBME gy Program (NTP) nemical Classification and Information Database iconomic Co-operation and Development Envi iconomic Co-operation and Development High iconomic Co-operation and Development High iconomic Co-operation and Development Scree of Toxic Effects of Chemical Substances)	Chemicals nent Scheme (NICN D) se (CCID) ronment, Health, an Production Volume	AS) d Safety Publications Chemicals Program

Disclaimer

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End of Safety Data Sheet