

Revision Date: 29-Jul-2022 Issuing Date: 26-Oct-2011

Revision Number: 6.2

Product Name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y,

LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

Safety data sheet number: BHY023

1. Identification

Product identifier

Product Name LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y,

LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY,

LC595XLY Ink

Other means of identification

Safety data sheet number BHY023

Recommended use of the chemical 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 importer

Manufacturer

Brother Industries, Ltd.

15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan

Telephone (for information): +81-52-824-2735

Importer

Brother International (Aust.) Ptv. Ltd.

ACN 001 393 835 Unit 2/51 Eastern Creek Drive Eastern Creek, NSW 2766, Australia

Telephone (for information): +61-2-9887-4344

For further information, please contact

Contact Point Product Safety Department

E-mail address sds.info@brother.co.jp

Emergency telephone number

Emergency telephone number CHEMTREC +61-290372994 (Australia)

CHEMTREC +1-703-527-3887 (International)

The National Poisons Centre, New Zealand: 0800 764 766 (0800 POISON)

EN / UGHS Page 1 / 12



Revision Date: 29-Jul-2022 Issuing Date: 26-Oct-2011

Revision Number: 6.2

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Safety data sheet number: BHY023

2. Hazard(s) identification

GHS Classification

Not classified

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	65-80
Glycerol	56-81-5	5-15
Yellow Dye	**	< 5
Triethylene glycol, monobutyl ether	143-22-6	1-5
1,2-Benzisothiazolin-3-one	2634-33-5	< 0.05

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Safety data sheet number: BHY023

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 Remove to fresh air. Get immediate medical advice/attention.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If eye irritation persists: Get medical

advice/attention.

Skin contact: Wash with soap and water. Get medical attention if irritation develops and persists.

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

Symptoms 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

Note to physiciansTreat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical, CO₂, water spray or regular foam

Unsuitable extinguishing media None.

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapors

EN / UGHS Page 3 / 12



Revision Date: 29-Jul-2022 Issuing Date: 26-Oct-2011

Revision Number: 6.2

Product Name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY lnk

Safety data sheet number: BHY023

Special protective actions for fire-fighters

Special protective equipment for

Wear self contained breathing apparatus for fire fighting if necessary.

fire-fighters

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing.

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.

Methods and material for containment and cleaning up

Methods for containmentAbsorb with earth, sand or other non-combustible material and transfer to containers for

later disposal.

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 Avoid contact with skin, eyes or clothing.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Store in a cool, well ventilated area.

Incompatible materials Acids, Bases, Oxidizing agent, Reducing agent

EN / UGHS Page 4 / 12



Revision Date: 29-Jul-2022 Issuing Date: 26-Oct-2011

Revision Number: 6.2

Product Name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y,

LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

Safety data sheet number: BHY023

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 controlsGood general ventilation should be sufficient under normal use.

Individual protection measures, such as personal protective equipment

Eye/face protection If there is a risk of contact:. Safety goggles.

Skin and body protection If there is a risk of contact:, Apron, Boots

Hand protection If there is a risk of contact:. Protective gloves.

Respiratory protection Use appropriate respiratory protection.

Environmental exposure controls Avoid release to the environment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance aqueous solution dark yellow Odor Slight.

Odor threshold No information available

Property Values Remarks • Method

pH 7 - 9 pH (as aqueous solution) No data available

Melting point / freezing point < -5 °C

Boiling point / boiling range > 100 °C

Flash point > 94 °C Tag Closed Cup Cleveland Open Cup

EN / UGHS Page 5 / 12



Revision Date: 29-Jul-2022 Issuing Date: 26-Oct-2011

Revision Number: 6.2

Product Name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY lnk

Safety data sheet number: BHY023

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limit: No data available
Lower flammability limit: No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative density1 - 1.1(H2O=1)Water solubilitySoluble in water

Solubility(ies)
No data available
None known
Partition coefficient
No data available
None known

Autoignition temperature > 400 °C

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosity2 - 5 mPa·s

Explosive properties No information available **Oxidizing properties** No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Liquid Density
No information available

10. Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions No information available.

EN / UGHS Page 6 / 12



Revision Date: 29-Jul-2022 Issuing Date: 26-Oct-2011

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Product Name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY lnk

Safety data sheet number: BHY023

Conditions to avoid

Conditions to avoidNo information available.

Incompatible materials

Incompatible materials Acids. Bases. Oxidizing agent. Reducing agent.

Hazardous decomposition products

Hazardous decomposition products Carbon monoxide, Carbon dioxide (CO₂)

11. Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation No information available

Eve contact No information available

Skin contact: No information available

Ingestion Acute LD₅₀ > 2000 mg/kg (OECD 420 method)

Symptoms No information available.

Numerical measures of toxicity - Product Information

No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 34,810.60 mg/kg

Unknown acute toxicity

9.8 % of the mixture consists of ingredient(s) of unknown toxicity

4.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

4.9 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

24.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

24.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

9.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

EN / UGHS Page 7 / 12



Revision Date: 29-Jul-2022 Issuing Date: 26-Oct-2011

Revision Number: 6.2

Product Name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y,

LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

Safety data sheet number: BHY023

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat)4 h
Triethylene glycol, monobutyl ether	= 5300 mg/kg (Rat)	= 3540 mg/kg (Rabbit)	-
1,2-Benzisothiazolin-3-one	= 1020 mg/kg (Rat)	> 2000 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

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

Potential health effects Eye: May cause slight irritation

Skin: Prolonged exposure may cause skin irritation

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Inhalation: Not an expected route of exposure Over exposure may cause respiratory

irritation.



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LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

Safety data sheet number: BHY023

12. Ecological information

Ecotoxicity

Ecotoxicity

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Glycerol	-	LC50: 51 - 57mL/L (96h,	-	-
		Oncorhynchus mykiss)		
Triethylene glycol,	EC50: >500mg/L (72h,	LC50: =2400mg/L (96h,	-	EC50: >500mg/L (48h,
monobutyl ether	Desmodesmus	Pimephales promelas)		Daphnia magna)
	subspicatus)			,

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	-1.75
Triethylene glycol, monobutyl ether	0.51
1,2-Benzisothiazolin-3-one	0.99

Mobility

Mobility in soil No information available.

Other adverse effects

Other adverse effects No information available.



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Safety data sheet number: BHY023

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

<u>IATA</u> Not regulated

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

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

National Regulations

<u>Australia</u>

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 Complies DSL/NDSL Exempt **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies Complies **KECL PICCS** Complies **AICS** Complies

EN / UGHS Page 10 / 12



Revision Date: 29-Jul-2022 Issuing Date: 26-Oct-2011

Revision Number: 6.2

Product Name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y,

LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

Safety data sheet number: BHY023

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 26-Oct-2011

Revision Date 29-Jul-2022

Revision Note

SDS sections updated: 1

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value ** Trade secret

C Carcinogen

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

EN / UGHS Page 11 / 12



Revision Date: 29-Jul-2022 Issuing Date: 26-Oct-2011

Revision Number: 6.2

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Safety data sheet number: BHY023

National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet