

Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

Ink

Safety data sheet number: BHY018-01

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Name LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y,

LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY Ink

Product Form Mixture

Safety data sheet number BHY018-01

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses 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

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer 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 Europe Ltd.

Brother House, 1 Tame Street, Audenshaw, Manchester M34 5JE, UK

Telephone (for information): +44-161-330-6531

#### For further information, please contact

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

#### 1.4. Emergency telephone number

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

For France only:

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

## Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

EN / EGHS Page 1 / 10



Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Safety data sheet number: BHY018-01

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

Ink

## 2.2. Label elements

### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

EUH208 - Contains 1,2-Benzisothiazolin-3-one May produce an allergic reaction.

## 2.3. Other 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).

## Section 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	CAS No	EC No	EC Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Water	7732-18-5	231-791-2	-	65-75	Not classified	No data available
Glycerol	56-81-5	200-289-5	-	5-15	Not classified	No data available
Yellow Dye	**	-	-	1-5	Not classified	No data available
Triethylene glycol, monobutyl ether	143-22-6	205-592-6	603-183-00-0	1-5	Eye Dam. 1 (H318)	No data available
1,2-Benzisothiazolin-3-one	2634-33-5	220-120-9	613-088-00-6	<0.05	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	No data available

<sup>\*\*</sup> CONFIDENTIAL

Full text of H- and EUH-phrases: see section 16

EN / EGHS Page 2 / 10



Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

Ink

Safety data sheet number: BHY018-01

# Section 4: First aid measures

## 4.1. Description of first aid measures

**General advice** If symptoms persist, call a physician.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If

symptoms persist, call a physician.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact:** Take off contaminated clothing. Wash off immediately with soap and plenty of water.

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

water to drink.

#### 4.2. 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

## 4.3. Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

# Section 5: Firefighting measures

## 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media None.

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapors

## 5.3. Advice for firefighters

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.

EN / EGHS Page 3 / 10



Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

Ink

Safety data sheet number: BHY018-01

## Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Ensure adequate ventilation. Avoid contact with eyes.

6.2. Environmental precautions

**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

Methods for containment Absorb 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.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## Section 7: Handling and storage

## 7.1. Precautions for safe handling

Advice on safe handling Keep out of reach of children. Avoid contact with skin and eyes.

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

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep away from oxidizing agents.

7.3. Specific end use(s)

Specific 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.



Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

lnk

Safety data sheet number: BHY018-01

\_\_\_\_\_

# Section 8: Exposure controls and personal protection

### 8.1. Control parameters

Exposure Limits .

			_		_
Chemical name	European Union	United Kingdom	France	Spain	Germany
Glycerol	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 200 mg/m <sup>3</sup>
56-81-5		STEL: 30 mg/m <sup>3</sup>	-	-	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Glycerol	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 20 mg/m <sup>3</sup>	-
56-81-5		_			
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Glycerol	-	TWA: 50 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
56-81-5		STEL: 100 mg/m <sup>3</sup>			STEL: 30 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)**No information available.

Predicted No Effect Concentration No info

(PNEC)

No information available.

### 8.2. Exposure controls

Appropriate engineering controls Good general ventilation should be sufficient under normal use.

Personal protective equipment 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** Safety goggles.

**Hand protection** Protective gloves.

**Skin and body protection**Long sleeved clothing and long pants.

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

**Environmental exposure controls** Avoid release to the environment.

## Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid
Color dark yellow
Odor Slight.

Odor threshold No information available

EN / EGHS Page 5 / 10



Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

Ink

•

Safety data sheet number: BHY018-01

<u>Property</u>	<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)	No data available	None known
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	$(H_2O=1)$
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	1 - 5 mPas	
Explosive properties	No information available	No information available.
Oxidizing properties	No information available	

# 9.2. Other information

# No information available

# Section 10: Stability and reactivity

## 10.1. Reactivity

No information available.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No information available.

## 10.4. Conditions to avoid

No information available

### 10.5. Incompatible materials

Strong oxidizing agents

## 10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

EN / EGHS Page 6 / 10



Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

lnk

Safety data sheet number: BHY018-01

# Section 11: Toxicological information

#### 11.1. Information on toxicological effects

### **Product Information**

Inhalation No information available

Eye contact No information available

**Skin contact:** No information available

Ingestion Acute LD<sub>50</sub> > 2000 mg/kg (OECD 420 method)

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

**ATEmix (oral)** 47,459.30 mg/kg **ATEmix (dermal)** 25,406.10 mg/kg

**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

## Section 12: Ecological information

## 12.1. Toxicity

## Ecotoxicity .

Contains 0.3 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Glycerol	-	51 - 57: 96 h	-	500: 24 h Daphnia magna
		Oncorhynchus mykiss		mg/L EC50
		mL/L LC50 static		-
Triethylene glycol,	500: 72 h Desmodesmus	2400: 96 h Pimephales	-	500: 48 h Daphnia magna
monobutyl ether	subspicatus mg/L EC50	promelas mg/L LC50		mg/L EC50
	-	static 2400: 96 h		-
		Pimephales promelas		
		mg/L LC50 2200 - 4600:		

EN / EGHS Page 7 / 10



Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

lnk

Safety data sheet number: BHY018-01

96 h Leuciscus idus mg/L	
LC50 static	

#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

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).

#### 12.6. Other adverse effects

No information available.

## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose in accordance with federal, state and local regulations.

## Section 14: Transport information

#### **IMDG**

14.1UN/ID noNot regulated14.2Proper shipping nameNot regulated14.3Hazard ClassNot regulated14.4Packing groupNot regulated14.5Marine pollutantNot applicable

14.6 Special Provisions None

14.7 Transport in bulk according to Not applicable

Annex II of MARPOL 73/78 and the

**IBC Code** 

EN / EGHS Page 8 / 10



Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

Ink

•

Safety data sheet number: BHY018-01

<u>RID</u>		
14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None

## <u>ADR</u>

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	<b>Environmental hazard</b>	Not applicable
146	Special Provisions	None

#### IATA

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None

## Section 15: Regulatory information

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

## **EU-Regulations**

- \* Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XVII.
- \* Contains no substance listed in REACH Regulation (EC) No.1907/2006 Candidate List for Authorization.
- \* Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XIV.

#### **National Regulations**

No information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## Section 16: Other information

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

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

EN / EGHS Page 9 / 10



Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY

Ink

Safety data sheet number: BHY018-01

H318 - Causes serious eye damage H400 - Very toxic to aquatic life

Legend

SVHC: Substances of Very High Concern for Authorization:

TWA TWA (time-weighted average)

\* Trade secret

STEL STEL (Short Term Exposure Limit)

Key literature references and sources for data

No information available

Revision Date 10-Mar-2020

Issuing Date 26-Dec-2007

Revision Note No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Disclaimer**

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).

EN / EGHS Page 10 / 10