

Revision Date: 31-Aug-2018 Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011Y, LC3013Y, LC3033Y, LC3034Y, LC3035Y, LC3111Y, LC3133Y, LC3135Y, LC3211Y, LC3213Y, LC3233Y, LC3235XLY, LC3311Y, LC3313Y, LC3235XLY, LC3231Y, LC3231Y, LC3235XLY, LC3231Y, LC3231Y, LC3235XLY, LC3231Y, LC3231Y, LC3231Y, LC3235XLY, LC3231Y, LC321Y, LC32

LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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Safety data sheet number: BHY151

### 1.1. Product identifier

Product Name LC3011Y, LC3013Y, LC3033Y, LC3035Y, LC3111Y, LC3133Y, LC3135Y, LC3211Y,

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

LC3213Y, LC3233Y, LC3235XLY, LC3311Y, LC3313Y, LC3333Y, LC3335XLY, LC3511Y, LC3513Y

Product Form Mixture

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#### 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> (Europe)

Brother International Europe Ltd.

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

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

(Australia)

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 contact

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

## 1.4. Emergency telephone number

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

CHEMTREC +61-290372994 (Australia)

For France only:

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



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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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## 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]

#### Australia Classification

Not classified as hazardous according to the criteria of NOHSC

## 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

No information available

## Section 3: Composition/information on ingredients

#### 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	Not applicable
Glycerol	56-81-5	200-289-5	-	5-15	Not classified	Not applicable
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)	Registered
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)	Not applicable

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

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## Section 4: First aid measures

## 4.1. Description of first aid measures

Remove to fresh air. Inhalation

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

Consult a physician.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

Ingestion Clean mouth with water and drink afterwards plenty of water.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** No information available

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 Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

5.3. Advice for firefighters

No information available

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

### Section 6: Accidental release measures

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

For non-emergency personnel Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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#### 6.2. Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas

6.3. 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**Take up mechanically, placing in appropriate containers for disposal.

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** Ensure adequate ventilation.

**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 container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

**Specific use(s)** Water based ink for inkjet printing machine

The information required is contained in this Material Safety Data Sheet.

## 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>

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

**Predicted No Effect Concentration** 

(PNEC)

No information available.

8.2. Exposure controls

**Appropriate engineering controls** No information available.

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** No special protective equipment required.

**Skin and body protection**No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Tag Closed Cup, Cleveland Open Cup,

**Environmental exposure controls** No information available.

## 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

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 7 - 9
Melting point / freezing point < -5 °C

Boiling point / boiling range > 100 °C Flash point > 94 °C

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

Upper flammability limit:No data availableLower flammability limit:No data available

Water solubility
Solubility(ies)
Solubility(ies)
Solubility(ies)
Solubility(ies)

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone known

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Autoignition temperature > 400 °C

Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties No data available
No data available
2 - 5 mPa s
No information available

No information available

None known None known

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

None under normal processing.

#### 10.4. Conditions to avoid

None known based on information supplied

#### 10.5. Incompatible materials

None known based on information supplied

#### 10.6. Hazardous decomposition products

Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur

## 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 Not classified

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

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Skin corrosion/irritation Not classified

Non-irritant (OECD 404 method)

Serious eye damage/eye irritation Not classified

Minimal irritant to the eye (OECD 405 method)

Respiratory or skin sensitization Not classified

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

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Contains 0 % 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:		
		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.

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**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

No information available.

#### 12.6. Other adverse effects

No information available.

## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

## Section 14: Transport information

#### <u>IMDG</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	Marine pollutant	Not applicable
14.6	Special Provisions	None

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

**IBC Code** 

RID

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
14.6	Special Provisions	None

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ADR
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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

#### 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**

No information available

## **National Regulations**

## 15.2. Chemical safety assessment

No information available

## 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

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

SVHC: Substances of Very High Concern for Authorization:

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

Ceiling Ceiling Limit Value Trade secret

### Key literature references and sources for data

No information available

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Revision Note Not applicable

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).

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