

Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Safety data sheet number: BHC071

Revision Number: 10

Product Name: LC3017C, LC3019C, LC3029C, LC3037C, LC3038C, LC3039C, LC3117C, LC3119C, LC3129C, LC3137C, LC3139C, LC3159C, LC3217C, LC3219C, LC3229C, LC3237C, LC3239C, LC3259C, LC3317C, LC3319C, LC3329C, LC3337C, LC3339C, LC3617C, LC3619C, LC3717C, LC3719C, LC3919C

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

### 1.1. Product identifier

**Product Name** 

LC3017C, LC3019C, LC3029C, LC3037C, LC3038C, LC3039C, LC3117C, LC3119C, LC3129C, LC3137C, LC3139C, LC3159C, LC3217C, LC3219C, LC3229C, LC3237C, LC3239C, LC3259C, LC3237C, LC3239C, LC3259C, LC3239C, LC3239C, LC3259C, LC3239C, LC3239C, LC3239C, LC3259C, LC3239C, LC3239C, LC3239C, LC3259C, LC3239C, LC3239C, LC3239C, LC3239C, LC3239C, LC3259C, LC3239C, LC3250C, LC3250C,LC3317C, LC3319C, LC3329C, LC3337C, LC3339C, LC3617C, LC3619C, LC3717C, LC3719C,

LC3919C

**Product Form** Mixture

**BHC071** Safety data sheet number

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

Relevant identified uses These products are dark blue 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

<u>Manufacturer</u> Brother Industries, Ltd.

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

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

Importer (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

EN / EGHS Page 1 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

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Safety data sheet number: BHC071

### 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	-	60-70	Not classified	Not applicable
Glycerol	56-81-5	200-289-5	-	15-25	Not classified	Not applicable
Triethylene glycol, monobutyl ether	143-22-6	205-592-6	603-183-00-0	1-5	Eye Dam. 1 (H318)	Registered
Colorant	**	**	-	1-5	Not classified	Not applicable
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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Safety data sheet number: BHC071

### Section 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

**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

surrounding environment.

**Unsuitable extinguishing media** No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available

5.3. Advice for firefighters

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.

EN / EGHS Page 3 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

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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>			
01 ' 1	14 = 1	Dartuard	Ni a tha a ul a sa al a	Finland	Denoment
Chemical name	ltaly	Portugal	Netherlands	Finland	Denmark
Glycerol	- Italy -	TWA: 10 mg/m <sup>3</sup>	- Netneriands	TWA: 20 mg/m <sup>3</sup>	Denmark -

EN / EGHS Page 4 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

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Safety data sheet number: BHC071

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

(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.

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

**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 blue Odor Slight.

Odor threshold No information available

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

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

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

EN / EGHS Page 5 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Safety data sheet number: BHC071

Revision Number: 10

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Vapor pressure No data available None known Vapor density No data available None known Relative density 1.0 - 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 viscosity2 - 5 mPa sExplosive propertiesNo information availableNo 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

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



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

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Safety data sheet number: BHC071

### 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 423 method)

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 442B 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



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

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Safety data sheet number: BHC071

## Section 12: Ecological information

### 12.1. Toxicity

.

Contains 0 % of components with unknown hazards to the aquatic environment.

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

### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

There is no data for this product.

**Component Information** 

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.



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

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Safety data sheet number: BHC071

# 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

IMDG	<u> </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
440	On a stat Danielana	NI

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** 

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

14.6 Special Provisions

### ADR

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
440	Outsile Descriptions	NI

14.6 Special Provisions None

### IATA

UN/ID no	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Environmental hazard	Not applicable
Special Provisions	None
	Proper shipping name Hazard Class Packing group Environmental hazard

EN / EGHS Page 9 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

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Safety data sheet number: BHC071

### 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

#### Legend

SVHC: Substances of Very High Concern for Authorization:

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

Ceiling Ceiling Limit Value \*\* Trade secret

#### Key literature references and sources for data

No information available

Revision Date 31-Aug-2018

Issuing Date 15-Oct-2015

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).

EN / EGHS Page 10 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

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Safety data sheet number: BHK071

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

### 1.1. Product identifier

Product Name LC3017BK, LC3019BK, LC3029BK, LC3037BK, LC3038BK, LC3039BK, LC3117BK, LC3119BK,

LC3129BK, LC3137BK, LC3139BK, LC3159BK, LC3217BK, LC3219BK, LC3229BK, LC3237BK, LC3239BK, LC3259BK, LC3317BK, LC3319BK, LC3339BK, LC3339BK, LC3339BK, LC3617BK, LC3617

LC3619BK, LC3717BK, LC3719BK, LC3919BK

Product Form Mixture

Safety data sheet number BHK071

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

Relevant identified uses These products are black 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

<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> (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.) Ptv. Ltd. ACN 001 393 835

Level 3. Building A. 11 Talayera 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

EN / EGHS Page 1 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

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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	=	60-70	Not classified	Not applicable
Glycerol	56-81-5	200-289-5	-	15-25	Not classified	Not applicable
Carbon Black	1333-86-4	215-609-9	-	5-9	Not classified	Not applicable
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

EN / EGHS Page 2 / 10



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### Section 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

**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

surrounding environment.

No information available

**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

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.

EN / EGHS Page 3 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

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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>			
Carbon Black	-	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	-
1333-86-4		STEL: 7 mg/m <sup>3</sup>			

EN / EGHS Page 4 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017BK, LC3019BK, LC3029BK, LC3037BK, LC3038BK, LC3039BK, LC3117BK, LC3119BK, LC3129BK, LC3137BK, LC3139BK, LC3159BK, LC3217BK, LC3219BK, LC3229BK, LC3237BK, LC3239BK, LC3259BK, LC3317BK, LC3319BK, LC3329BK, LC3337BK, LC3339BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

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					
Carbon Black	-	TWA: 3.5 mg/m <sup>3</sup>	-	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4				STEL: 7 mg/m <sup>3</sup>	
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>
Carbon Black	-	=	TWA: 4.0 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
1333-86-4				STEL: 7 mg/m <sup>3</sup>	STEL: 15 mg/m <sup>3</sup>

**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.

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

**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 black
Odor Slight.

Odor threshold No information available

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

**pH** 7 - 9

EN / EGHS Page 5 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017BK, LC3019BK, LC3029BK, LC3037BK, LC3038BK, LC3039BK, LC3117BK, LC3119BK, LC3129BK, LC3137BK, LC3139BK, LC3159BK, LC3217BK, LC3219BK, LC3229BK, LC3237BK, LC3239BK, LC3259BK, LC3317BK, LC3319BK, LC3329BK, LC3337BK, LC33339BK, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

°C Melting point / freezing point -5 100 °C Boiling point / boiling range

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

None known **Evaporation rate** No data available Flammability (solid, gas) None known No data available 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 1.0 - 1.1  $(H_2O=1)$ 

Water solubility Soluble in water

Solubility(ies) No data available None known Partition coefficient No data available None known > 400 °C **Autoignition temperature** 

**Decomposition temperature** No data available None known

Kinematic viscosity No data available None known Dynamic viscosity 2 - 5 mPas

No information available. **Explosive properties** 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

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

EN / EGHS Page 6 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017BK, LC3019BK, LC3029BK, LC3037BK, LC3038BK, LC3039BK, LC3117BK, LC3119BK, LC3129BK, LC3137BK, LC3139BK, LC3159BK, LC3217BK, LC3219BK, LC3229BK, LC3237BK, LC3239BK, LC3259BK, LC3317BK, LC3319BK, LC3329BK, LC3337BK, LC3339BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

### 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 423 method)

Skin corrosion/irritation Not classified

Non-irritant (OECD 404 method)

Serious eye damage/eye irritation Not classified

Practically non-irritant (OECD 405 method)

Respiratory or skin sensitization Not classified

It is not a skin sensitizer (OECD 442B method)

**Germ cell mutagenicity** AMES test : Negative (OECD 471 method)

Carcinogenicity Carbon Black: In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen

(possible human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any

association between carbon black and lung tumors.

Other ingredients of this product have not been classified as carcinogens according

to IARC monographs, NTP and OSHA

EN / EGHS Page 7 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017BK, LC3019BK, LC3029BK, LC3037BK, LC3038BK, LC3039BK, LC3117BK, LC3119BK, LC3129BK, LC3137BK, LC3139BK, LC3159BK, LC3217BK, LC3219BK, LC3229BK, LC3237BK, LC3239BK, LC3259BK, LC3317BK, LC3319BK, LC3329BK, LC3337BK, LC3339BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

## Section 12: Ecological information

#### 12.1. Toxicity

.

Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol	-	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	-	500: 24 h Daphnia magna mg/L EC50
Carbon Black	-	-	-	EC50: >5600mg/L (24h, Daphnia magna)
Triethylene glycol, monobutyl ether	500: 72 h Desmodesmus subspicatus mg/L EC50	2400: 96 h Pimephales promelas mg/L LC50 static 2400: 96 h Pimephales promelas mg/L LC50 2200 - 4600: 96 h Leuciscus idus mg/L LC50 static		500: 48 h Daphnia magna mg/L EC50

### 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

No information available.

### 12.6. Other adverse effects

No information available.

EN / EGHS Page 8 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Safety data sheet number: BHK071

Revision Number: 10

Product Name: LC3017BK, LC3019BK, LC3029BK, LC3037BK, LC3038BK, LC3039BK, LC3117BK, LC3119BK, LC3129BK, LC3137BK, LC3139BK, LC3159BK, LC3217BK, LC3219BK, LC3229BK, LC3237BK, LC3239BK, LC3259BK, LC3317BK, LC3319BK, LC3329BK, LC3337BK, LC3339BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

### 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

#### **IMDG**

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
116	Chaoial Provinions	None

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** 

RI	D

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

### ADR

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

	<del>-</del>	
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

EN / EGHS Page 9 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017BK, LC3019BK, LC3029BK, LC3037BK, LC3038BK, LC3039BK, LC3117BK, LC3119BK, LC3129BK, LC3137BK, LC3139BK, LC3159BK, LC3217BK, LC3219BK, LC3229BK, LC3237BK, LC3239BK, LC3259BK, LC3317BK, LC3319BK, LC3329BK, LC3337BK, LC3339BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

## 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

### Legend

SVHC: Substances of Very High Concern for Authorization:

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

Ceiling Ceiling Limit Value \*\* Trade secret

### Key literature references and sources for data

No information available

Revision Date 31-Aug-2018

Issuing Date 15-Oct-2015

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).

EN / EGHS Page 10 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

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Safety data sheet number: BHM071

### \_\_\_\_\_

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

### 1.1. Product identifier

Product Name LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M,

LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M,

LC3919M

Product Form Mixture

Safety data sheet number BHM071

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

Relevant identified uses These products are dark red 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

<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> (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

EN / EGHS Page 1 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

Safety data sheet number: BHM071

### 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	-	60-70	Not classified	Not applicable
Glycerol	56-81-5	200-289-5	-	15-25	Not classified	Not applicable
Triethylene glycol, monobutyl ether	143-22-6	205-592-6	603-183-00-0	1-5	Eye Dam. 1 (H318)	Registered
Colorant	**	**	-	2-6	Not classified	Not applicable
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



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

Safety data sheet number: BHM071

### Section 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

**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

surrounding environment.

**Unsuitable extinguishing media** No information available.

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

Specific hazards arising from the

chemical

No information available

5.3. Advice for firefighters

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.

EN / EGHS Page 3 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Safety data sheet number: BHM071

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

### 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					

EN / EGHS Page 4 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

Safety data sheet number: BHM071

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** 

(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.

**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 magenta Odor Slight.

**Odor threshold** No information available

Remarks • Method **Property** 

pН - 9 -5 °C Melting point / freezing point 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) None known No data available Flammability Limit in Air None known

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

EN / EGHS Page 5 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Safety data sheet number: BHM071

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

Vapor pressure No data available None known Vapor density No data available None known Relative density 1.0 - 1.1  $(H_2O=1)$ Water solubility Soluble in water Solubility(ies) No data available None known Partition coefficient No data available None known > 400 °C **Autoignition temperature** None known **Decomposition temperature** No data available Kinematic viscosity No data available None known

**Dynamic viscosity**2 - 5 mPa s **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

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



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

Safety data sheet number: BHM071

### 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 423 method)

Skin corrosion/irritation Not classified

Non-irritant (OECD 404 method)

Serious eye damage/eye irritation Not classified

Practically non-irritant (OECD 405 method)

Respiratory or skin sensitization Not classified

It is not a skin sensitizer (OECD 442B 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



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

Safety data sheet number: BHM071

## Section 12: Ecological information

### 12.1. Toxicity

.

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.

**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.



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

Safety data sheet number: BHM071

## 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

IMDG	<u> </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
440	Consolal Descriptions	Mana

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** 

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### <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	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	<b>Environmental hazard</b>	Not applicable
14.6	Special Provisions	None

EN / EGHS Page 9 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017M, LC3019M, LC3029M, LC3037M, LC3038M, LC3039M, LC3117M, LC3119M, LC3129M, LC3137M, LC3139M, LC3159M, LC3217M, LC3219M, LC3229M, LC3237M, LC3239M, LC3259M, LC3317M, LC3319M, LC3329M, LC3337M, LC3339M, LC3617M, LC3619M, LC3717M, LC3719M, LC3919M

Safety data sheet number: BHM071

### 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

#### Legend

SVHC: Substances of Very High Concern for Authorization:

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

Ceiling Ceiling Limit Value \*\* Trade secret

#### Key literature references and sources for data

No information available

Revision Date 31-Aug-2018

**Issuing Date** 15-Oct-2015

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).

EN / EGHS Page 10 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Safety data sheet number: BHY071

Revision Number: 10

Product Name: LC3017Y, LC3019Y, LC3029Y, LC3037Y, LC3038Y, LC3039Y, LC3117Y, LC3119Y, LC3129Y, LC3137Y, LC3139Y, LC3159Y, LC3217Y, LC3219Y, LC3229Y, LC3237Y, LC3239Y, LC3259Y, LC3317Y, LC3319Y, LC3329Y, LC3337Y, LC3339Y, LC3617Y, LC3717Y, LC3719Y, LC3919Y

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

### 1.1. Product identifier

Product Name LC3017Y, LC3019Y, LC3029Y, LC3037Y, LC3038Y, LC3039Y, LC3117Y, LC3119Y, LC3129Y,

LC3137Y, LC3139Y, LC3159Y, LC3217Y, LC3219Y, LC3229Y, LC3237Y, LC3239Y, LC3259Y, LC3317Y, LC3319Y, LC3329Y, LC3337Y, LC3339Y, LC3617Y, LC3619Y, LC3717Y, LC3719Y,

LC3919Y

Product Form Mixture

Safety data sheet number BHY071

#### 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

<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> (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

EN / EGHS Page 1 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017Y, LC3019Y, LC3029Y, LC3037Y, LC3038Y, LC3039Y, LC3117Y, LC3119Y, LC3129Y, LC3137Y, LC3139Y, LC3159Y, LC3217Y, LC3219Y, LC3229Y, LC3237Y, LC3239Y, LC3259Y, LC3317Y, LC3319Y, LC3329Y, LC3337Y, LC3339Y, LC3617Y, LC3717Y, LC3719Y, LC3719Y

Safety data sheet number: BHY071

### 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	-	55-65	Not classified	Not applicable
Glycerol	56-81-5	200-289-5	-	20-30	Not classified	Not applicable
Triethylene glycol, monobutyl ether	143-22-6	205-592-6	603-183-00-0	1-5	Eye Dam. 1 (H318)	Registered
Colorant	**	**	-	1-5	Not classified	Not applicable
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



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017Y, LC3019Y, LC3029Y, LC3037Y, LC3038Y, LC3039Y, LC3117Y, LC3119Y, LC3129Y, LC3137Y, LC3139Y, LC3159Y, LC3217Y, LC3219Y, LC3229Y, LC3237Y, LC3239Y, LC3259Y, LC3317Y, LC3319Y, LC3329Y, LC3337Y, LC3339Y, LC3617Y, LC3717Y, LC3719Y, LC3919Y

Safety data sheet number: BHY071

### Section 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

**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

surrounding environment.

**Unsuitable extinguishing media** No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available

5.3. Advice for firefighters

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.

EN / EGHS Page 3 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Safety data sheet number: BHY071

Revision Number: 10

Product Name: LC3017Y, LC3019Y, LC3029Y, LC3037Y, LC3038Y, LC3039Y, LC3117Y, LC3119Y, LC3129Y, LC3137Y, LC3139Y, LC3159Y, LC3217Y, LC3219Y, LC3229Y, LC3237Y, LC3239Y, LC3259Y, LC3317Y, LC3319Y, LC3329Y, LC3337Y, LC3339Y, LC3617Y, LC3717Y, LC3719Y, LC3919Y

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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					

EN / EGHS Page 4 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017Y, LC3019Y, LC3029Y, LC3037Y, LC3038Y, LC3039Y, LC3117Y, LC3119Y, LC3129Y, LC3137Y, LC3139Y, LC3159Y, LC3217Y, LC3219Y, LC3229Y, LC3237Y, LC3239Y, LC3259Y, LC3317Y, LC3319Y, LC3329Y, LC3337Y, LC3339Y, LC3617Y, LC3717Y, LC3719Y, LC3719Y

Safety data sheet number: BHY071

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** 

(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.

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

**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 Tag Closed Cup, Cleveland Open Cup,

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

EN / EGHS Page 5 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017Y, LC3019Y, LC3029Y, LC3037Y, LC3038Y, LC3039Y, LC3117Y, LC3119Y, LC3129Y, LC3137Y, LC3139Y, LC3159Y, LC3217Y, LC3219Y, LC3229Y, LC3237Y, LC3239Y, LC3259Y, LC3317Y, LC3319Y, LC3329Y, LC3337Y, LC3339Y, LC3617Y, LC3717Y, LC3719Y, LC3919Y

Safety data sheet number: BHY071

Vapor pressure No data available None known Vapor density No data available None known Relative density 1.0 - 1.1  $(H_2O=1)$ Water solubility Soluble in water Solubility(ies) No data available None known Partition coefficient No data available None known > 400 °C **Autoignition temperature** None known **Decomposition temperature** No data available Kinematic viscosity No data available None known

2 - 5 mPas

Explosive properties No information available No information available.

Oxidizing properties No information available

### 9.2. Other information

No information available

Dynamic viscosity

### 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

EN / EGHS Page 6 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017Y, LC3019Y, LC3029Y, LC3037Y, LC3038Y, LC3039Y, LC3117Y, LC3119Y, LC3129Y, LC3137Y, LC3139Y, LC3159Y, LC3217Y, LC3219Y, LC3229Y, LC3237Y, LC3239Y, LC3259Y, LC3317Y, LC3319Y, LC3329Y, LC3337Y, LC3339Y, LC3617Y, LC3717Y, LC3719Y, LC3719Y

Safety data sheet number: BHY071

### 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 423 method)

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 442B 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



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

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Safety data sheet number: BHY071

## Section 12: Ecological information

### 12.1. Toxicity

.

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.

**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.



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Safety data sheet number: BHY071

## 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

IMDG	<u> </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
440	On a stat Danielana	NI

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** 

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

14.6 Special Provisions

### ADR

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

EN / EGHS Page 9 / 10



Revision Date: 31-Aug-2018 Issuing Date: 15-Oct-2015

Revision Number: 10

Product Name: LC3017Y, LC3019Y, LC3029Y, LC3037Y, LC3038Y, LC3039Y, LC3117Y, LC3119Y, LC3129Y, LC3137Y, LC3139Y, LC3159Y, LC3217Y, LC3219Y, LC3229Y, LC3237Y, LC3239Y, LC3259Y, LC3317Y, LC3319Y, LC3329Y, LC3337Y, LC3339Y, LC3617Y, LC3717Y, LC3719Y, LC3919Y

Safety data sheet number: BHY071

### 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

#### Legend

SVHC: Substances of Very High Concern for Authorization:

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

Ceiling Ceiling Limit Value \*\* Trade secret

#### Key literature references and sources for data

No information available

Revision Date 31-Aug-2018

Issuing Date 15-Oct-2015

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).

EN / EGHS Page 10 / 10