

Revision Date: 30-Sep-2020 Issuing Date: 26-Sep-2013

Revision Number: 11

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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

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, LC3329BK, LC3337BK, LC3339BK, LC3617BK, 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 Water based ink for inkjet printing machine

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.

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

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands 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

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## Regulation (EC) No 1272/2008

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

#### 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	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)	01-2119475107- 38-XXXX
Carbon Black	1333-86-4	215-609-9 435-640-3	-	5-9	Not classified	Registered 01-2119384822- 32-XXXX
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

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

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

**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.

Get immediate medical advice/attention.

Eye contact In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes.

Get immediate medical advice/attention.

**Skin contact:** Wash off immediately with soap and plenty of water. If skin irritation persists, call a

physician.

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 Inhalation ( Vapor / Mist ) : No specific effects and/or symptoms have been reported or

known For large quantities: May cause irritation to the respiratory system. Increased

difficulty in breathing. Sneezing. Coughing

#### 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 and toxic gases and vapors Carbon monoxide , Carbon dioxide ( $CO_2$ ) , Nitrogen oxides ( $NO_x$ ) , Oxides of sulfur

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

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## Section 6: Accidental release measures

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

For non-emergency personnel Avoid contact with skin, eyes or clothing

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

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

**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**Avoid contact with skin, eyes or clothing.

**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 out of the reach of children. Keep cool. Protect from sunlight.

7.3. Specific end use(s)

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



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# 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>			
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 No information available.

(PNEC)

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** Apron, Boots

**Respiratory protection** Use appropriate respiratory protection.

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

# Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

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# brother at your side

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**Appearance** 

Physical state Liquid Color black
Odor Slight

Odor threshold No information available

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

Flash point >= 93.3 °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

No data available

None known,
None known

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

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative density1.0 - 1.1(H2O=1)

Water solubilitySoluble in waterSolubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperature> 400 °C

 Decomposition temperature
 No data available
 None known

 Kinematic viscosity
 No data available
 None known

 Dynamic viscosity
 2 5 mPa c

Dynamic viscosity2 - 5 mPa sExplosive propertiesNo information availableOxidizing propertiesNo information available

9.2. Other information

No information available

# Section 10: Stability and reactivity

#### 10.1. Reactivity

None.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

None under normal processing.

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#### 10.4. Conditions to avoid

Keep away from heat. Keep away from water or moist air.

#### 10.5. Incompatible materials

Acids, Bases, Oxidizing agent, Reducing agent

## 10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), 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 Acute LD<sub>50</sub> > 2000 mg/kg (OECD 420 method)

**Skin corrosion/irritation** Non-irritant (OECD 404 method)

Serious eye damage/eye irritation Non-irritant (OECD 405 method)

Respiratory or skin sensitization Respiratory sensitization : No information available

It is not a skin sensitizer (OECD 429 method)

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

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.

Ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA

Reproductive toxicity No information available.

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**STOT - single exposure** No information available.

STOT - repeated exposure No information available

**Aspiration hazard** No information available.

Potential health effects Eye: May cause slight irritation

Skin: Prolonged exposure may cause skin irritation

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

Over exposure may cause respiratory

irritation.

# Section 12: Ecological information

## 12.1. Toxicity

#### **Ecotoxicity**

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		
Carbon Black	-	1000:96 h Brachydanio	-	5600: 24 h Daphnia
		rerio mg/L LC50		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		

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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

14.1	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
117	Transport in bulk sees	rding tallet applicable

14.7 Transport in bulk according to Not applicable

Annex II of MARPOL 73/78 and the

**IBC Code** 

## RID

UN/ID no	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
<b>Environmental hazard</b>	Not applicable
	UN/ID no Proper shipping name Hazard Class Packing group Environmental hazard

14.6 Special Provisions None

## <u>ADR</u>

	<del>-</del>	
14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated

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14.4Packing groupNot regulated14.5Environmental hazardNot applicable

14.6 Special Provisions None

IATA

14.1UN/ID noNot regulated14.2Proper shipping nameNot regulated14.3Hazard ClassNot regulated14.4Packing groupNot regulated14.5Environmental hazardNot 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

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

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#### **Revision Note**

Importer information has been changed.

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).