

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

071502368

N/A

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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

## 1. IDENTIFICATION

### 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

### Other means of identification

**Product Code(s)** BHK071

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** No information available

**Uses advised against** No information available

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

**Manufacturer Address** Brother Industries, Ltd.  
15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan  
Telephone (for information): +81-52-824-2735

**Supplier Address** Brother International Corporation  
200 Crossing Boulevard, Bridgewater, NJ 08807, USA  
Telephone (for information): +1-877-276-8437

### Emergency telephone number

**Emergency Telephone** CHEMTREC +1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## Appearance

Physical state: Liquid Odor: Slight

## Other Information

### Unknown acute toxicity

30 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

30 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

30 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

10 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	60-70	*
Glycerol	56-81-5	15-25	*
Carbon Black	1333-86-4	5-9	*
Triethylene glycol, monobutyl ether	143-22-6	1-5	*
1,2-Benzisothiazolin-3-one	2634-33-5	< 0.05	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

\*\*

Trade secret

## 4. FIRST AID MEASURES

### Description of first aid measures

#### Inhalation

Remove to fresh air.

**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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

**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.

### **Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available

### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical** No information available

### **Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

### **Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas

### **Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

**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.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

The information required is contained in this Material Safety Data Sheet

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol 56-81-5	No data available	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	-
Carbon Black 1333-86-4	TWA: 3 mg/m <sup>3</sup> inhalable particulate matter	TWA: 3.5 mg/m <sup>3</sup> (vacated) TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

### Appropriate engineering controls

**Engineering controls** Good general ventilation should be sufficient under normal use.

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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

## Individual protection measures, such as personal protective equipment

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 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	
Melting point / freezing point	< -5 °C	
Boiling point / boiling range	> 100 °C	
Flash point	> 94 °C	Tag Closed Cup Cleveland Open Cup
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	1.0 - 1.1	(H <sub>2</sub> O=1)
Water solubility	Soluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	> 400 °C	
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	2 - 5 mPa s	
Explosive properties	No information available	No information available.
Oxidizing properties	No information available	

### Other Information

Softening point	No information available
Molecular weight	No information available

**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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	None known based on information supplied
<b>Incompatible materials</b>	None known based on information supplied
<b>Hazardous decomposition products</b>	Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

<b>Inhalation</b>	No information available
<b>Eye contact</b>	No information available.
<b>Skin contact</b>	No information available.
<b>Ingestion</b>	Not classified Acute LD <sub>50</sub> > 2000 mg/kg (OECD 423 method)
<b>Skin corrosion/irritation</b>	Not classified Non-irritant (OECD 404 method)
<b>Serious eye damage/irritation</b>	Not classified Practically non-irritant (OECD 405 method)
<b>Respiratory or skin sensitization</b>	Not classified It is not a skin sensitizer (OECD 442B method)
<b>Germ cell mutagenicity</b>	AMES test : Negative (OECD 471 method)

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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

## 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**

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol 56-81-5	-	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	-	500: 24 h Daphnia magna mg/L EC50
Carbon Black 1333-86-4	-	-	-	EC50: >5600mg/L (24h, Daphnia magna)
Triethylene glycol, monobutyl ether 143-22-6	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

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

### Component Information

Chemical name	Partition coefficient
Glycerol 56-81-5	-1.76
Triethylene glycol, monobutyl ether 143-22-6	0.51
1,2-Benzisothiazolin-3-one 2634-33-5	1.3

**Other adverse effects** No information available.



**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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste from residues/unused products**

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

**Contaminated packaging**

Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL/NDL	Exempt
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies



# SAFETY DATA SHEET

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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## U.S. State Right-to-Know Regulations

### US State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
Glycerol 56-81-5	X	X	X
Carbon Black 1333-86-4	X	X	X
Triethylene glycol, monobutyl	X	-	X



# SAFETY DATA SHEET

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, LC3617BK, LC3619BK, LC3717BK, LC3719BK, LC3919BK

Safety data sheet number: BHK071

ether 143-22-6			
-------------------	--	--	--

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Section 9: Physical and chemical properties -
<u>HMIS</u>	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X

Issuing Date 15-Oct-2015

Revision Date 31-Aug-2018

Revision Note Not applicable.

### 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).

**End of Safety Data Sheet**