

Product Name: LC3011BK, LC3013BK, LC3033BK, LC3034BK, LC3035BK, LC3111BK, LC3133BK, LC3135BK, LC3211BK, LC3213BK, LC3233BK, LC3235XLBK, LC3311BK, LC3313BK, LC3333BK, LC3335XLBK, LC3511BK, LC3513BK

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## 1. IDENTIFICATION

Product identifier

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Other means of identification			
Product Code(s)	BHK151		
Synonyms	None		
Recommended use of the chemica	l 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.		
Supplier Address	15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan Telephone (for information): +81-52-824-2735 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



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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)
15 % 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	5-15	*
Diethylene glycol	111-46-6	5-9	*
Carbon Black	1333-86-4	5-9	*
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.
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



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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 Explosion data	No information available
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.
- 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.



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## 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	No data available	TWA: 15 mg/m <sup>3</sup> mist, total	-
56-81-5		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	TWA: 3 mg/m <sup>3</sup> inhalable	TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m <sup>3</sup>
1333-86-4	particulate matter	(vacated) TWA: 3.5 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.

### 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.



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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 Color Odor Odor threshold	Liquid black Slight No information available	
Property_	<u>Values</u>	Remarks • Method
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 mPas	
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	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	
10. STABILITY AND REAC	TIVITY	
Reactivity	No information available.	

Chemical stability	Stable under normal conditions.



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Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied
Incompatible materials	None known based on information supplied

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur.

## **11. TOXICOLOGICAL INFORMATION**

### **Product Information**

Inhalation	No information available		
Eye contact	No information available.		
Skin contact	No information available.		
Ingestion	Not classified Acute LD <sub>50</sub> > 2000 mg/kg (OECD 420 method)		
Skin corrosion/irritation	Not classified Non-irritant (OECD 404 method)		
Serious eye damage/irritation	Not classified Minimal irritant to the eye (OECD 405 method)		
Respiratory or skin sensitization	Not classified It is not a skin sensitizer (OECD 429 method)		
Germ cell mutagenicity	AMES test : Negative (OECD 471 method)		
Carcinogenicity	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. <b>Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA</b>		



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## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Glycerol	-	51 - 57: 96 h	-	500: 24 h Daphnia magna
56-81-5		Oncorhynchus mykiss		mg/L EC50
		mL/L LC50 static		_
Diethylene glycol	-	75200: 96 h Pimephales	EC50 = 29228 mg/L 15	84000: 48 h Daphnia
111-46-6		promelas mg/L LC50	min	magna mg/L EC50
		flow-through		
Carbon Black	-	-	-	EC50: >5600mg/L (24h,
1333-86-4				Daphnia magna)

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

There is no data for this product.

#### **Component Information**

Chemical name	Partition coefficient
Glycerol	-1.76
56-81-5	
Diethylene glycol	-1.98
111-46-6	
1,2-Benzisothiazolin-3-one	1.3
2634-33-5	

Other adverse effects

No information available.

## **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.



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## **14. TRANSPORT INFORMATION**

DOT	Not regulated
<u>TDG</u>	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
<u>RID</u>	Not regulated
ADR	Not regulated
ADN_	Not regulated

## **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Exempt
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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



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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	-	-	Х
Glycerol 56-81-5	Х	X	Х
Diethylene glycol 111-46-6	-	-	Х
Carbon Black 1333-86-4	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

NFPA	Health hazards 0 Flammability 1	Instability 0	Section 9: Physical and chemical properties -
HMIS	Health hazards 0 Flammability 1	Physical hazards 0	Personal protection X
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Revision Note	Not applicable.		



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### wDisclaimer

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**