

Revision Date: 31-Aug-2018

Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C,  
LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C,  
LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

## 1. IDENTIFICATION

### Product identifier

**Product Name** LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C, LC3133C, LC3135C,  
LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C, LC3313C, LC3333C, LC3335XLC,  
LC3511C, LC3513C

### Other means of identification

**Product Code(s)** BHC151

**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: 31-Jan-2017

Revision Number: 6

Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C,  
LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C,  
LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

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

5 % 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	65-75	*
Glycerol	56-81-5	10-20	*
Triethylene glycol, monobutyl ether	143-22-6	1-5	*
Diethylene glycol	111-46-6	1-9	*
Cyan Dye	**	1-8	*
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.

Revision Date: 31-Aug-2018

Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C,  
LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C,  
LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

**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.

**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.

**Revision Date:** 31-Aug-2018

**Issuing Date:** 31-Jan-2017

Revision Number: 6

Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C,  
LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C,  
LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

## 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	-

### 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.

**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.

Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C, LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C, LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### Appearance

Physical state	Liquid
Color	dark blue
Odor	Slight
Odor threshold	No information available

#### Property

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

## 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied

Revision Date: 31-Aug-2018

Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C,  
LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C,  
LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

**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** 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	-	500: 24 h Daphnia magna mg/L EC50

Revision Date: 31-Aug-2018

Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C, LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C, LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

Triethylene glycol, monobutyl ether 143-22-6	500: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	mL/L LC50 static 2400: 96 h <i>Pimephales promelas</i> mg/L LC50 static 2400: 96 h <i>Pimephales promelas</i> mg/L LC50 2200 - 4600: 96 h <i>Leuciscus idus</i> mg/L LC50 static	-	500: 48 h <i>Daphnia magna</i> mg/L EC50
Diethylene glycol 111-46-6	-	75200: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	EC50 = 29228 mg/L 15 min	84000: 48 h <i>Daphnia magna</i> 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
Diethylene glycol 111-46-6	-1.98
1,2-Benzisothiazolin-3-one 2634-33-5	1.3

**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.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**TDG** Not regulated

**Revision Date:** 31-Aug-2018

**Issuing Date:** 31-Jan-2017

Revision Number: 6

Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C,  
LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C,  
LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

<u>MEX</u>	Not regulated
<u>ICAO (air)</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	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
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





# SAFETY DATA SHEET

Revision Date: 31-Aug-2018

Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C, LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C, LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

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
Diethylene glycol 111-46-6	-	-	X
Triethylene glycol, monobutyl ether 143-22-6	X	-	X

### 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 31-Jan-2017

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**