

Revision Date: 31-Aug-2018

Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011Y, LC3013Y, LC3033Y, LC3034Y, LC3035Y, LC3111Y, LC3133Y, LC3135Y, LC3211Y, LC3213Y, LC3233Y, LC3235XLY, LC3311Y, LC3313Y, LC3235XLY, LC3211Y, LC3213Y, LC3235XLY, LC3211Y, LC321YY, LC

LC3333Y, LC3335XLY, LC3511Y, LC3513Y

Safety data sheet number: BHY151

## 1. IDENTIFICATION

Product identifier

Product Name LC3011Y, LC3013Y, LC3033Y, LC3034Y, LC3035Y, LC3111Y, LC3133Y, LC3135Y,

LC3211Y, LC3213Y, LC3233Y, LC3235XLY, LC3311Y, LC3313Y, LC3333Y, LC3335XLY,

LC3511Y, LC3513Y

Other means of identification

Product Code(s) BHY151

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

<u>Supplier Address</u> 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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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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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

25 % of the mixture consists of ingredient(s) of unknown toxicity

5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

25 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

25 % 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	65-75	*
Glycerol	56-81-5	5-15	*
Yellow Dye	**	1-5	*
Triethylene glycol, monobutyl ether	143-22-6	1-5	*
1,2-Benzisothiazolin-3-one	2634-33-5	< 0.05	*

<sup>\*</sup>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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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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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

## 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

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

**Explosion data** 

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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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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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	

### 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.

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

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

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None known None known

None known

None known

None known

None known

No information available.

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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid Color dark yellow Odor Slight

**Odor threshold** No information available

Property\_ Values Remarks • Method

На - 9 -5 °C Melting point / freezing point <

Boiling point / boiling range 100 °C 94 °C Flash point

No data available None known **Evaporation rate** None known Flammability (solid, gas) 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 Vapor density No data available

1.0 - 1.1 Relative density Water solubility Soluble in water Solubility(ies) No data available Partition coefficient No data available

**Autoignition temperature** > 400 °C **Decomposition temperature** No data available Kinematic viscosity No data available

**Dynamic viscosity** 2 - 5 mPas No information available **Explosive properties** 

No information available **Oxidizing properties** 

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

No information available. Reactivity

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied

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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

Safety data sheet number: BHY151

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 mL/L LC50 static	-	500: 24 h Daphnia magna mg/L EC50

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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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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
143-22-6		static 2400: 96 h		
		Pimephales promelas		
		mg/L LC50 2200 - 4600:		
		96 h Leuciscus idus mg/L		
		LC50 static		

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.

## 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

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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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IATA Not regulated

IMDG Not regulated

RID 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 hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

#### **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

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LC3333Y, LC3335XLY, LC3511Y, LC3513Y

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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
Triethylene glycol, monobutyl ether 143-22-6	Х	-	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

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** 



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Product Name: LC3011M, LC3013M, LC3033M, LC3034M, LC3035M, LC3111M, LC3133M, LC3135M, LC3211M, LC3213M, LC3235XLM, LC3311M,

LC3313M, LC3333M, LC3335XLM, LC3511M, LC3513M

## 1. IDENTIFICATION

Product identifier

Product Name LC3011M, LC3013M, LC3033M, LC3035M, LC3111M, LC3133M, LC3135M,

LC3211M, LC3213M, LC3233M, LC3235XLM, LC3311M, LC3313M, LC3333M,

LC3335XLM, LC3511M, LC3513M

Other means of identification

Product Code(s) BHM151

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

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

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

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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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LC3313M, LC3333M, LC3335XLM, LC3511M, LC3513M

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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

17.4 % of the mixture consists of ingredient(s) of unknown toxicity

2.4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

17.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

17.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

2.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable.

### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	65-80	*
Glycerol	56-81-5	10-20	*
Magenta Dye	**	<2.5	*
1,2-Benzisothiazolin-3-one	2634-33-5	<0.05	*

<sup>\*</sup>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

physician.

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LC3313M, LC3333M, LC3335XLM, LC3511M, LC3513M

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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

## 5. FIRE-FIGHTING MEASURES

surrounding environment.

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

Specific hazards arising from the

chemical Explosion data

Ingestion

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.

## 7. HANDLING AND STORAGE

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LC3313M, LC3333M, LC3335XLM, LC3511M, LC3513M

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### 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	

### **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.

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LC3313M, LC3333M, LC3335XLM, LC3511M, LC3513M

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid Color dark red Odor Slight

**Odor threshold** No information available

Property **Values** Remarks • Method

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

94 °C Flash point Tag Closed Cup Cleveland Open Cup

None known

**Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

No data available Upper flammability limit: 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

**Partition coefficient** No data available None known > 400 °C **Autoignition temperature Decomposition temperature** No data available None known

No data available Kinematic viscosity None known 2 - 5 mPas

**Dynamic viscosity** No information available **Explosive properties** 

No information available. **Oxidizing properties** No information available

Other Information

No information available Softening point Molecular weight No information available No information available **VOC Content (%)** No information available **Liquid Density** No information available **Bulk density** 

## 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

Incompatible materials None known based on information supplied

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Product Name: LC3011M, LC3013M, LC3033M, LC3034M, LC3035M, LC3111M, LC3133M, LC3135M, LC3211M, LC3213M, LC3233M, LC3235XLM, LC3311M, LC3213M, LC3235XLM, LC3211M, LC3213M, LC3235XLM, LC3211M, LC3213M, LC3235XLM, LC3211M, LC3214M, LC3214M,

LC3313M, LC3333M, LC3335XLM, LC3511M, LC3513M

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 mL/L LC50 static	-	500: 24 h Daphnia magna mg/L EC50

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Revision Date: 31-Aug-2018 Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011M, LC3013M, LC3033M, LC3034M, LC3035M, LC3111M, LC3133M, LC3135M, LC3211M, LC3213M, LC3233M, LC3235XLM, LC3311M,

LC3313M, LC3333M, LC3335XLM, LC3511M, LC3513M

Safety data sheet number: BHM151

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
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

MEX Not regulated

ICAO (air) Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated



Revision Date: 31-Aug-2018

Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011M, LC3013M, LC3033M, LC3034M, LC3035M, LC3111M, LC3133M, LC3135M, LC3211M, LC3213M, LC3235XLM, LC32311M,

LC3313M, LC33333M, LC3335XLM, LC3511M, LC3513M

Safety data sheet number: BHM151

## 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 hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

## **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.

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Revision Date: 31-Aug-2018

Issuing Date: 31-Jan-2017

Revision Number: 6

Product Name: LC3011M, LC3013M, LC3033M, LC3034M, LC3035M, LC3111M, LC3133M, LC3135M, LC3211M, LC3213M, LC3235XLM, LC32311M, LC32325XLM, LC3235XLM, LC32311M, LC32325XLM, LC3235XLM, LC325XLM, LC325XLM, LC325XLM, LC325XLM, LC325XLM, LC325XLM, LC325XLM, LC325XLM, LC325XLM, LC32

LC3313M, LC33333M, LC33335XLM, LC3511M, LC3513M

Safety data sheet number: BHM151

### 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

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

NFPAHealth hazards0Flammability1Instability0Section 9: Physical and chemical propertiesHMISHealth hazards0Flammability1Physical hazards0Personal protectionX

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** 



**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

<u>Supplier Address</u> 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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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.

### <u>Mixture</u>

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	*

<sup>\*</sup>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.

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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

## 5. FIRE-FIGHTING MEASURES

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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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	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	ļ.

### 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.

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Product Name: LC3011C, LC3013C, LC3033C, LC3034C, LC3035C, LC3111C, LC3133C, LC3135C, LC3211C, LC3213C, LC3233C, LC3235XLC, LC3311C, LC3213C, LC3235XLC, LC3211C, LC3213C, LC3235XLC, LC3211C, LC3213C, LC3235XLC, LC3211C, LC3213C, LC3212C, LC3212C,

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

<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

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

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone known

Dynamic viscosity

2 - 5 mPa s

Explosive properties

No information available

No information available

**Explosive properties**No information available **Oxidizing properties**No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Liquid Density
Bulk density
No information available
No information available
No information available
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

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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

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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, LC3235XLC, LC3211C, LC3213C, LC3235XLC, LC3211C, LC3235XLC, LC3235XLC, LC3231C, LC3235XLC, LC325XLC, LC

LC3313C, LC3333C, LC3335XLC, LC3511C, LC3513C

Safety data sheet number: BHC151

		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
143-22-6		static 2400: 96 h		
		Pimephales promelas		
		mg/L LC50 2200 - 4600:		
		96 h Leuciscus idus mg/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		

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	
Triethylene glycol, monobutyl ether	0.51
143-22-6	
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.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

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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

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/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 hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

### **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

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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	-	-	X
7732-18-5			
Glycerol	X	X	X
56-81-5			
Diethylene glycol	-	-	X
111-46-6			
Triethylene glycol, monobutyl	X	-	X
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

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

**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** 

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