

Revision Date: 22-Jul-2020 Issuing Date: 26-Sep-2013

Revision Number: 5

Product Name: LC201M, LC203M, LC205M, LC211M, LC213M, LC215M, LC221M, LC223M, LC225XLM, LC231M, LC233M, LC235XLM, LC263M, LC605M, LC625M, LC635M, LC645M, LC663M, LC665XLM, LC673M, LC675XLM, LC683M, LC685XLM, LC691M, LC693M, LC695XLM, LC21EM, LC22EM, LC22UM, LC23EM

Safety data sheet number: BHM026

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name LC201M, LC203M, LC205M, LC211M, LC213M, LC215M, LC223M, LC225XLM,

LC231M, LC233M, LC235XLM, LC261M, LC263M, LC605M, LC625M, LC635M, LC645M, LC663M, LC665XLM, LC675XLM, LC683M, LC685XLM, LC691M, LC693M,

LC695XLM, LC20EM, LC21EM, LC22EM, LC22UM, LC23EM

Product Form Mixture

Safety data sheet number BHM026

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	-	65-80	Not classified	Not applicable
Glycerol	56-81-5	200-289-5	-	10-20	Not classified	Not applicable
Magenta Dye	**	**	**	<2.5	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	Registered
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

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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 physiciansTreat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO₂, 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 (CO₂), Nitrogen oxides (NOx), 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

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 containmentAbsorb 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 handlingAvoid 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 ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 200 mg/m ³
56-81-5		STEL: 30 mg/m ³			
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Glycerol	-	TWA: 10 mg/m ³	-	TWA: 20 mg/m ³	-
56-81-5		-			
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Glycerol	-	TWA: 50 mg/m ³	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³
56-81-5		STEL: 100 mg/m ³			STEL: 30 mg/m ³

No information available. **Derived No Effect Level (DNEL)**

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

Appearance

Physical state Liquid Color dark red Odor Slight

Odor threshold No information available

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

Flammability Limit in Air
Upper flammability limit:
Lower flammability limit:
No data available
No data available

Vapor pressureNo data availableVapor densityNo data availableRelative density1.0 - 1.1Water solubilitySoluble in waterSolubility(ies)No data availablePartition coefficientNo data available

Autoignition temperature> 400 °CDecomposition temperatureNo data availableKinematic viscosityNo data availableDynamic viscosity2 - 5 mPa s

Explosive propertiesNo information available
No information available

9.2. Other informationNo information available

None known No data available (H₂O=1)

None known

None known,

None known

Tag Closed Cup, Cleveland Open Cup,

None known None known

None known None known

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.

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

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10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO₂), 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 LD₅₀ > 2000 mg/kg (OECD 420 method)

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

Serious eye damage/eye irritation Minimal irritant to the eye (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)

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

monographs, NTP and OSHA

Reproductive toxicityNo information available.

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.



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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 microorganisms	Crustacea
ſ	Glycerol	-	51 - 57: 96 h	-	500: 24 h Daphnia magna
			Oncorhynchus mykiss		mg/L EC50
			mL/L LC50 static		_

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

There is no data for this product.

Component Information

Chemical name	Partition coefficient		
Glycerol	-1.76		
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.

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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

14.7 Transport in bulk according to Not applicable

Annex II of MARPOL 73/78 and the

IBC Code

RID

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 Environmental hazard Not applicable None

14.6 Special Provisions

<u>ADR</u>

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 Environmental hazard Not applicable 14.6 Special Provisions None

IATA

14.1 UN/ID no Not regulated Not regulated 14.2 Proper shipping name 14.3 Hazard Class Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazard Not 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

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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

H412 - Harmful to aquatic life with long lasting effects

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).

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