

Revision Date: 11-Jan-2019 Issuing Date: 26-Sep-2013

Revision Number: 4

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, LC20EM, LC21EM, LC22EM, LC22UM, LC23EM Ink

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, LC221M, LC223M, LC225XLM,

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

LC695XLM, LC20EM, LC21EM, LC22EM, LC22UM, LC23EM Ink

Product Form Mixture

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#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses These products are dark red ink in a cartridge for Brother Industries, Ltd. inkjet multifunction

devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated. Information provided on this SDS is only consistent with the use

specified by Brother.

Uses advised against No information available

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

Manufacturer 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.

Brother House, 1 Tame Street, Audenshaw, Manchester M34 5JE, UK

Telephone (for information): +44-161-330-6531

(Australia)

Brother International (Aust.) Pty. Ltd. ACN 001 393 835

Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia

Telephone (for information): +61-2-9887-4344

#### 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)

CHEMTREC +61-290372994 (Australia)

For France only:

Antipoison Center telephone number: ORFILA +33-1-45-425-959



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# Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### Australia Classification

Not classified as hazardous according to the criteria of NOHSC

#### 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

No information available

## Section 3: Composition/information on ingredients

#### 3.2 Mixtures

| Chemical name              | CAS No    | EC No     | EC Index No  | Weight-% | Classification<br>according to<br>Regulation (EC)<br>No. 1272/2008<br>[CLP]                           | REACH<br>Registration<br>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     | Aquatic Chronic 3 (H412)  | Not applicable                  |
| 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                  |

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

**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.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available

4.3. Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

### Section 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Unsuitable extinguishing media** No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel Ensure adequate ventilation.

6.2. Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas

6.3. 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.

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 handling Ensure adequate ventilation.

**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 container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

**Specific use(s)** Water based ink for inkjet printing machine

The information required is contained in this Material Safety Data Sheet.

### Section 8: Exposure controls and personal protection

#### 8.1. Control parameters

Exposure Limits .



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| Chemical name | European Union | United Kingdom              | France                    | Spain                     | Germany                    |
|---------------|----------------|-----------------------------|---------------------------|---------------------------|----------------------------|
| Glycerol      | -              | TWA: 10 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup> | TWA: 200 mg/m <sup>3</sup> |
| 56-81-5       |                | STEL: 30 mg/m <sup>3</sup>  |                           |                           |                            |
| Chemical name | Italy          | Portugal                    | Netherlands               | Finland                   | Denmark                    |
| Glycerol      | -              | TWA: 10 mg/m <sup>3</sup>   | -                         | TWA: 20 mg/m <sup>3</sup> | -                          |
| 56-81-5       |                |                             |                           |                           |                            |
| Chemical name | Austria        | Switzerland                 | Poland                    | Norway                    | Ireland                    |
| Glycerol      | -              | TWA: 50 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup> | -                         | TWA: 10 mg/m <sup>3</sup>  |
| 56-81-5       |                | STEL: 100 mg/m <sup>3</sup> |                           |                           | STEL: 30 mg/m <sup>3</sup> |

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

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 Long sleeved clothing and long pants.

Respiratory protection In case of large spillages: Wear suitable respiratory protective equipment.

**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

Remarks • Method **Property** 

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

Flash point >= 93.3 °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

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative density1.0 - 1.1(H2O=1)Water solubilitySoluble in water

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperature> 400 °C

Decomposition temperature

No data available

None known

None known

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

#### 9.2. Other information

No information available

# Section 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

#### 10.4. Conditions to avoid

None known based on information supplied

#### 10.5. Incompatible materials

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

Carbon oxides



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# 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 Not classified

Acute LD<sub>50</sub> > 2000 mg/kg (OECD 420 method)

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

pH: 7-9

Serious eye damage/eye irritation Minimal irritant to the eye (OECD 405 method)

pH: 7-9

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

# Section 12: Ecological information

#### 12.1. Toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish                                 | Toxicity to microorganisms | Crustacea               |
|---------------|----------------------|--------------------------------------|----------------------------|-------------------------|
| Glycerol      | -                    | 51 - 57: 96 h                        | J                          | 500: 24 h Daphnia magna |
|               |                      | Oncorhynchus mykiss mL/L LC50 static |                            | mg/L EC50               |

#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

There is no data for this product.

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**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

No information available.

#### 12.6. Other adverse effects

No information available.

# Section 13: Disposal considerations

### 13.1. Waste treatment methods

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

# 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 |
| 440  | O                    | A              |

14.6 Special Provisions None

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

**IBC Code** 

RID

| UN/ID no                    | Not regulated   |
|-----------------------------|---|
| Proper shipping name        | Not regulated   |
| Hazard Class                | Not regulated   |
| Packing group               | Not regulated   |
| <b>Environmental hazard</b> | Not applicable  |
|                             | Proper shipping name<br>Hazard Class<br>Packing group |

14.6 Special Provisions None

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# ADR

| 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           |
|      |                      |                |

### <u>IATA</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 |
| 440  | On a stat Danielana  | NI ' '         |

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**

No information available

#### **National Regulations**

### 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 Limit Value \*\* Trade secret

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### Key literature references and sources for data

No information available

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Revision Note Not applicable

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaime

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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