

Revision Date: 10-Mar-2020 Issuing Date: 26-Dec-2007

Revision Number: 14

Product Name: LC11M, LC16M, LC38M, LC39M, LC60M, LC61M, LC67M, LC975M,

LC980M, LC985M, LC990M, LC1100M, LC65HYM, LC67HYM, LC990HYM,

LC1100HYM Ink

Safety data sheet number: BHM018-01

## 1. IDENTIFICATION

Product identifier

Product Name LC11M, LC16M, LC38M, LC39M, LC60M, LC61M, LC975M, LC980M, LC985M,

LC990M, LC1100M, LC65HYM, LC67HYM, LC990HYM, LC1100HYM Ink

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

**Recommended Use**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

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

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 +1-703-527-3887 (International)

CHEMTREC +1-800-424-9300 (North America)

## 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 stateLiquid Odor: Slight

#### Other Information

#### Unknown acute toxicity

26 % of the mixture consists of ingredient(s) of unknown toxicity

3 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

3 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

26 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

26 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

7 % 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	*
Diethylene glycol	111-46-6	1-5	*
Magenta Dye2	**	<2	*
Magenta Dye (FJM-001B)	**	<2	*
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.

### 4. FIRST AID MEASURES

### **Description of first aid measures**

**General advice** If symptoms persist, call a physician.

Inhalation Get immediate medical advice/attention. IF INHALED: Remove to fresh air and keep at rest

in a position comfortable for breathing.

Eye contact Get immediate medical advice/attention. In case of eye contact, immediately flush eyes with

plenty of water for at least 15 minutes.

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<sup>\*\*</sup> Trade secret



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**Skin contact:** Take off contaminated clothing. Wash off immediately with soap and plenty of water.

Ingestion Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of

water to drink.

Most important symptoms and effects, both acute and delayed

Symptoms Skin contact: Repeated and/or prolonged skin contact may cause irritation

Eye contact: May cause eye irritation

Ingestion: May cause stomach ache. Unlikely route of exposure

Inhalation: Unlikely route of exposure

Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical, CO<sub>2</sub>, water spray or regular foam

Unsuitable extinguishing media None.

Specific hazards arising from the

chemical

Thermal decomposition of organic components may result in occurrence of oxides of carbon. Toxic gases may be formed upon combustion and represents a hazard to

firefighters. Combustion products: See Section: 10.

**Explosion data** 

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

Special protective equipment for

fire-fighters

Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent

significant exposure to toxic combustion gases from any source.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Avoid contact with eyes.

For emergency responders

Use personal protection recommended in Section 8.

#### Environmental precautions

Prevent substance entering sewers. Washings must be prevented from entering surface water drains.

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#### 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** 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.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Keep out of the reach of children. Avoid contact with skin and eyes.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from oxidizing agents

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.

### 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.

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#### Individual protection measures, such as personal protective equipment

**Eye/face protection** If there is a risk of contact:. Safety goggles.

**Hand protection** If there is a risk of contact:. Protective gloves.

**Skin and body protection** If there is a risk of contact:. 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.

**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 Liquid
Color dark red
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

Flash point > 94 °C Tag Closed Cup Cleveland Open Cup

Evaporation rateNo data availableNone knownFlammability (solid, gas)Not applicableNone knownFlammability Limit in AirNone known

Upper flammability limit: No data available

Lower flammability limit: No data available

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

Partition coefficient No data available None known

Autoignition temperature> 400 °CDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone known

**Dynamic viscosity**No data available
None know

1 - 5 mPa s

**Explosive properties**Not explosive

Oxidizing properties
No information available

Other Information

Softening point No information available Molecular weight No information available

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No information available.



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VOC Content (%)
Liquid Density

Bulk density

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 No information available.

**Conditions to avoid**No information available.

Incompatible materials Strong oxidizing agents

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

**Inhalation** No information available

Eye contact No information available

Skin contact: No information available

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

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (dermal) 44,752.40 mg/kg

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

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

Respiratory or skin sensitization 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

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# 12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Glycerol	-	51 - 57: 96 h	<del>-</del>	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		

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	
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 in accordance with federal, state and local regulations

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

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IATA Not regulated

<u>IMDG</u> Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

## 15. REGULATORY INFORMATION

#### International Inventories

**TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**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).

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#### **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 111-46-6	-	-	X
111-46-6			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

NFPAHealth hazards0Flammability0Instability0Section 9: Physical and chemical properties -HMISHealth hazards0Flammability0Physical hazards0Personal protectionX

**Issuing Date** 26-Dec-2007

Revision Date 10-Mar-2020

**Revision Note** No information available.

### **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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