

Revision Date: 10-Mar-2020

Issuing Date: 26-Dec-2007

Revision Number: 12

Product Name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y,  
LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY  
Ink

Safety data sheet number: BHY018-01

## 1. IDENTIFICATION

### Product identifier

**Product Name** LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y,  
LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY Ink

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** These products are dark yellow 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

**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 +1-703-527-3887 (International)  
CHEMTREC +1-800-424-9300 (North America)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is 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 state**Liquid **Odor:** Slight

**Other Information**

**Unknown acute toxicity**

25 % of the mixture consists of ingredient(s) of unknown toxicity  
5.2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
5.2 % 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)  
10.1 % 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	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

\*\* 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.

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

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**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**

**Note to physicians** Treat symptomatically.

## 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 yellow 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 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.

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

<b>Eye/face protection</b>	If there is a risk of contact.: Safety goggles.
<b>Hand protection</b>	If there is a risk of contact.: Protective gloves.
<b>Skin and body protection</b>	If there is a risk of contact.: Long sleeved clothing and long pants.
<b>Respiratory protection</b>	In case of large spillages: Wear suitable respiratory protective equipment.
<b>Environmental exposure controls</b>	Avoid release to the environment.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Appearance**

<b>Physical state</b>	Liquid
<b>Color</b>	dark yellow
<b>Odor</b>	Slight
<b>Odor threshold</b>	No information available

**Property**

**Values**

**Remarks • Method**

<b>pH</b>	7 - 9	
<b>Melting point / freezing point</b>	< -5 °C	
<b>Boiling point / boiling range</b>	> 100 °C	
<b>Flash point</b>	> 94 °C	Tag Closed Cup Cleveland Open Cup
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	Not applicable	
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	1 - 1.1	(H <sub>2</sub> O=1)
<b>Water solubility</b>	Soluble in water	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	> 400 °C	
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	1 - 5 mPa s	
<b>Explosive properties</b>	Not explosive	No information available.
<b>Oxidizing properties</b>	No information available	

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available

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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	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)	25,406.10 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 microorganisms	Crustacea
Glycerol 56-81-5	-	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	-	500: 24 h Daphnia magna mg/L EC50
Triethylene glycol, monobutyl ether 143-22-6	500: 72 h Desmodosmus subspicatus mg/L EC50	2400: 96 h Pimephales promelas mg/L LC50 static 2400: 96 h Pimephales promelas mg/L LC50 2200 - 4600: 96 h Leuciscus idus mg/L LC50 static	-	500: 48 h Daphnia magna 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
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

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<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	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 hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No





# SAFETY DATA SHEET

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### 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.

### 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
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 0	Instability 0	Section 9: Physical and chemical properties -
<u>HMIS</u>	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X

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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