

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHK023–01-EUUSOTHER

Product name: LC10EBK, LC12EBK, LC15EBK, LC101BK, LC103BK, LC107BK, LC109BK, LC110BK, LC111BK, LC113BK, LC117BK, LC119BK, LC121BK, LC123BK, LC127XLBK, LC129XLBK, LC131BK, LC133BK, LC137XLBK, LC139XLBK, LC161BK, LC163BK, LC509BK, LC529XLBK, LC539XLBK, LC549XLBK, LC563BK, LC567XLBK, LC569XLBK, LC583BK, LC587XLBK, LC589XLBK, LC597XLBK, LC599XLBK Ink

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name (code)	LC10EBK(LK9896001), LC12EBK(LK9920001), LC15EBK(LK9908001), LC101BK(LK7322001), LC103BK(LK6537001), LC107BK(LK6576001), LC109BK(LK7597001), LC110BK(LK7507001), LC111BK(LK7475001), LC113BK(LK6868001), LC117BK(LK6900001), LC119BK(LK7598001), LC121BK(LK7370001), LC123BK(LK6810001), LC127XLBK(LK6924001), LC129XLBK(LK7599001), LC131BK(LK7406001), LC133BK(LK7242001), LC137XLBK(LK7209001), LC139XLBK(LK7600001), LC161BK(LK7652001), LC163BK(LK7656001), LC509BK(LK7725001), LC529XLBK(LK7729001), LC539XLBK(LK7733001), LC549XLBK(LK7723001), LC563BK(LK6970001), LC567XLBK(LK6974001), LC569XLBK(LK7724001), LC583BK(LK7017001), LC599XLBK(LK705001), LC589XLBK(LK7724001), LC597XLBK(LK7017001), LC599XLBK(LK7737001)	
1.2 Relevant identified uses of the sub	ostance or mixture and uses advised against	
Relevant Identified Use(s)	These products are black 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.	
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	
Importer (USA)	Brother International Corporation 200 Crossing Boulevard, Bridgewater, NJ 08807, USA Telephone (for information): +1-877-276-8437	
Importer (Canada)	Brother International Corporation (Canada) Ltd. 1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada Telephone (for information): +1-514-685-0600	
Importer (Europe)	Brother International Europe Ltd. Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531	
Importer (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	
E-mail Address	sds.info@brother.co.jp	
1.4 Emergency telephone number		
Emergency Telephone (24 hours)	CHEMTREC +1-703-527-3887 (International) +1-800-424-9300 (North America)	

+1-800-424-9300 (North America) +61-290372994 (Australia)

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



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## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not classified as hazardous

**Classification according to OSHA GHS** 

Not classified as hazardous

#### Australia Classification

Not classified as hazardous according to the criteria of NOHSC

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms
None

Signal Word None

Hazard Statements EUH208 - Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements None

#### 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).

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## SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Description of the mixture: Water based inkjet ink (Mixture).

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)
Glycerol	56-81-5	200-289-5	5-15	Not classified	Not classified
Carbon Black	1333-86-4	215-609-9	1-10	Not classified	Not classified
Diethylene glycol	111-46-6	203-872-2	1-9	Xn; R22	Acute Tox. 4 (H302)
Water	7732-18-5	231-791-2	60-70	Not classified	Not classified
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Xn; R22 Xi; R41 Xi; R38 R43 N; R50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

For the full text of R-phrases and H-Statements see Section 16

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	If symptoms persist, obtain medical attention.
Inhalation	Obtain medical attention. In case of accident by inhalation remove casualty to fresh air and keep at rest.
Skin contact	Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.
Eye contact	Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
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	<ul> <li>Skin contact: Repeated and/or prolonged skin contact may cause irritation.</li> <li>Eye contact: May cause eye irritation.</li> <li>Ingestion: Ingestion may cause irritation of the gastrointestinal tract. Unlikely route of exposure.</li> <li>Inhalation: Unlikely route of exposure.</li> </ul>
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

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### SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable Extinguishing Media	Extinguish preferably with dry chemical, carbon dioxide, water spray, foam.
Unsuitable Extinguishing Media	None.
5.2 Special hazards arising from the substance or mixture	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.
5.3 Advice for firefighters	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.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid contact with eyes.
6.2 Environmental precautions	Prevent substance entering sewers. Washings must be prevented from entering surface water drains.
6.3 Methods and materials for containment and cleaning up	Wipe up with absorbent towel. Wash with water to remove remaining traces of ink.
6.4 Reference to other sections	For personal protection: See section 8. For disposal considerations: See section 13.

## SECTION 7: Handling and storage

7.1 Precautions for safe handling	Keep out of the reach of children. Avoid contact with skin and eyes.
7.2 Conditions for safe storage, including any incompatibilities	Keep away from oxidizing agents.
7.3 Specific end use(s)	These products are black ink in a cartridge for Brother Industries, Ltd. inkjet multifunction devices and fax receivers. This cartridge should be used as supplied by Brother and for use in the products stated.

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control Parameters

#### **Occupational Exposure Limits**

Chemical Name	Glycerol 56-81-5
ACGIH TLV	TWA: 10 mg/m <sup>3</sup> mist



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00114 851	
OSHA PEL	TWA: 15 mg/m <sup>3</sup> mist, total particulate
European Union	TWA: 5 mg/m <sup>3</sup> mist, respirable fraction
European Union	
The United Kingdom	STEL: 30 mg/m <sup>3</sup>
<b>F</b> actor <b>c</b>	TWA: 10 mg/m <sup>3</sup>
France	TWA: 10 mg/m <sup>3</sup>
Spain	TWA: 10 mg/m <sup>3</sup>
Germany	TWA: 50 mg/m <sup>3</sup>
	Ceiling / Peak: 100 mg/m <sup>3</sup>
Portugal	TWA: 10 mg/m <sup>3</sup>
Finland	TWA: 20 mg/m <sup>3</sup>
Switzerland	STEL: 100 mg/m <sup>3</sup>
<b></b>	TWA: 50 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup>
Chemical Name	Carbon Black
	1333-86-4
ACGIH TLV	TWA: 3 mg/m <sup>3</sup> inhalable fraction
OSHA PEL	TWA: 3.5 mg/m <sup>3</sup>
European Union	-
The United Kingdom	STEL: 7 mg/m <sup>3</sup>
	TWA: 3.5 mg/m <sup>3</sup>
France	TWA: 3.5 mg/m <sup>3</sup>
Spain	TWA: 3.5 mg/m <sup>3</sup>
Germany	Carc
Portugal	TWA: 3.5 mg/m <sup>3</sup>
Finland	TWA: 3.5 mg/m <sup>3</sup>
	STEL: 7 mg/m <sup>3</sup>
Denmark	TWA: 3.5 mg/m <sup>3</sup>
Poland	TWA: 4.0 mg/m <sup>3</sup>
Norway	TWA: 3.5 mg/m <sup>3</sup>
	STEL: 7 mg/m <sup>3</sup>
Ireland	TWA: 3.5 mg/m <sup>3</sup>
	STEL: 7 mg/m <sup>3</sup>
Chemical Name	Diethylene glycol
	111-46-6
ACGIH TLV	-
OSHA PEL	-
European Union	-
The United Kingdom	STEL: 69 ppm
<b>U</b> and	STEL: 303 mg/m <sup>3</sup>
	TWA: 23 ppm
	TWA: 101 mg/m <sup>3</sup>
Germany	TWA: 10 ppm
	TWA: 44 mg/m <sup>3</sup>
	Ceiling / Peak: 40 ppm
	Ceiling / Peak: 176 mg/m <sup>3</sup>
Denmark	TWA: 2.5 ppm
	TWA: 11 mg/m <sup>3</sup>
Austria	STEL 40 ppm
	STEL 176 mg/m <sup>3</sup>
	TWA: 10 ppm
	TWA: 44 mg/m <sup>3</sup>
Switzerland	STEL: 40 ppm
	STEL: 176 mg/m <sup>3</sup>
	TWA: 10 ppm
	TWA: 44 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>



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Ireland	TW/A: 23 ppm
literatiu	TWA: 23 ppm
	TWA: 100 ma/m <sup>3</sup>
	6

#### 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 Protection Hand Protection Skin and body protection Respiratory protection	Safety goggles. Protective gloves. Long sleeved clothing and long pants. 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	Black
Odor	Slight
Odor Threshold	No information available
рН	7 - 9
Melting point/freezing point	-/<-5 °C
Initial boiling point and boiling range	> 100 °C
Flash Point	Not less than 93.3°C
Evaporation rate	(Tag closed cup; Cleveland open cup) No information available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive	No information available
limits	
Vapor pressure	No information available
Vapor density	No information available
Relative density	1.0 - 1.1 (H <sub>2</sub> O=1)
Solubility(ies)	Soluble (water)
Partition coefficient: n-octanol/water Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	2 - 5 mPa·s
Explosive properties	Not explosive
Oxidizing properties	No information available

#### 9.2 Other information

No information available.



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## SECTION 10: Stability and reactivity

10.1 Reactivity	No information available.
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	No information available.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Contains: Carbon monoxide (CO). Carbon dioxide (CO $_2$ ).

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity
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o information available. o information available.
o information available.
D <sub>50</sub> > 2000 mg/kg (Method: OECD#420)
on-irritant. (Method: OECD#404)
inimal irritant to the eye. (Method: OECD#405)
is not a skin sensitizer. (Method: OECD#429)
egative. (Method: OECD#471)
arbon Black: In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen (possible uman carcinogen). This classification is given to chemicals, for which there is inadequate human vidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The assification is based upon the development of lung tumors in rats receiving chronic inhalation cosures to free carbon black at levels that induce particle overload of the lung. Studies performed animal models other than rats did not show any association between carbon black and lung mors.
ther ingredients of this product have not been classified as carcinogens according to IARC onographs, NTP and OSHA.



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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol		LC <sub>50</sub> : 51 - 57 mL/L 96 h	EC <sub>50</sub> : >500 mg/L 24 h
56-81-5		static (Oncorhynchus mykiss)	(Daphnia magna)
Carbon Black 1333-86-4			EC <sub>50</sub> : >5600 mg/L 24 h (Daphnia magna)
Diethylene glycol		LC <sub>50</sub> : 75200 mg/L 96 h	EC <sub>50</sub> : 84000 mg/L 48 h
111-46-6		flow-through (Pimephales promelas)	(Daphnia magna)

#### 12.2 Persistance and degradability

No information available.

#### 12.3 Bioaccumulative potential

Chemical Name		log Pow
Glycerol		-1.76
Diethylene	glycol	-1.98
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 of in accordance with Federal, State, and local regulations.



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## **SECTION 14: Transport information**

Not classified according to the United Nations "Recommendations on the Transport of Dangerous Goods"

14.1 UN Number	None
14.2 UN proper shipping name	None
14.3 Transport hazard class(es)	None
14.4 Packing Group	None
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	Not applicable

Not regulated under DOT, IMDG, IATA.

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules.
	Canada: WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment No.

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### **SECTION 16: Other information**

Full text of R-phrases referred to under sections 2 and 3	R22 - Harmful if swallowed R41 - Risk of serious damage to eyes R38 - Irritating to skin R43 - May cause sensitization by skin contact R50 - Very toxic to aquatic organisms
Full text of H-Statements referred to under sections 2 and 3	H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage H317 - May cause an allergic skin reaction H400 - Very toxic to aquatic life
Additional information	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).
Revision Note	SECTION 1, 2
References:	U.S. 29CFR Part 1910 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization EU Directive 91/322/EEC and 2000/39/EC NTP 11th Report on Carcinogens
Abbreviations:	ACGIH: American Conference of Governmental Industrial Hygienists DOT: Department Of Transportation (US) IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods NOHSC: National Occupational Health and Safety Commission (Australia) NTP: National Toxicology Program (US) OSHA: Occupational Safety and Health Administration (US) PEL: Permiss ble Exposure Limit STEL: Short Term Exposure Limit TLV: Threshold Limit Value (ACGIH) TSCA: Toxic Substances Control Act (US) TWA: Time Weighted Average WHMIS: Workplace Hazardous Material Information System (Canada)

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

 
 Product name (code)
 LC10EC(LK9897001), LC12EC(LK9921001), LC15EC(LK9909001), LC101C(LK7323001), LC103C(LK6538001), LC105C(LK6577001), LC110C(LK7508001), LC111C(LK7476001), LC113C(LK6869001), LC115C(LK6901001), LC121C(LK7371001), LC123C(LK6811001), LC125XLC(LK6925001), LC131C(LK7407001), LC133C(LK7243001), LC135XLC(LK7210001), LC161C(LK7653001), LC163C(LK7657001), LC505C(LK7726001), LC525XLC(LK7730001), LC535XLC(LK7734001), LC545XLC(LK7739001), LC563C(LK6971001), LC565XLC(LK6975001), LC583C(LK7002001), LC585XLC(LK7006001), LC595XLC(LK7018001)

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

Relevant Identified Use(s)	These products are dark blue 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.

#### 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
Importer (USA)	Brother International Corporation 200 Crossing Boulevard, Bridgewater, NJ 08807, USA Telephone (for information): +1-877-276-8437
Importer (Canada)	Brother International Corporation (Canada) Ltd. 1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada Telephone (for information): +1-514-685-0600
Importer (Europe)	Brother International Europe Ltd. Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531
Importer (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
E-mail Address	sds.info@brother.co.jp
1.4 Emergency telephone number	
Emergency Telephone (24 hours)	CHEMTREC +1-703-527-3887 (International) +1-800-424-9300 (North America) +61-290372994 (Australia) For France only: Antipoison Center telephone number: ORFILA +33-1-45-425-959



Product name: LC10EC, LC12EC, LC15EC, LC101C, LC103C, LC105C, LC110C, LC111C, LC113C, LC115C, LC121C, LC123C, LC125XLC, LC131C, LC133C, LC135XLC, LC161C, LC163C, LC505C, LC525XLC, LC535XLC, LC545XLC, LC563C, LC565XLC, LC583C, LC585XLC, LC595XLC lnk

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#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not classified as hazardous

#### **Classification according to OSHA GHS**

Not classified as hazardous

#### Australia Classification

Not classified as hazardous according to the criteria of NOHSC

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms
None

Signal Word None

#### Hazard Statements

EUH208 - Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements None

#### 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).



Product name: LC10EC, LC12EC, LC15EC, LC101C, LC103C, LC105C, LC110C, LC111C, LC113C, LC115C, LC121C, LC123C, LC125XLC, LC131C, LC133C, LC135XLC, LC161C, LC163C, LC505C, LC525XLC, LC535XLC, LC545XLC, LC563C, LC565XLC, LC583C, LC585XLC, LC595XLC Ink

## SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Description of the mixture: Water based inkjet ink (Mixture).

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)
Glycerol	56-81-5	200-289-5	10-20	Not classified	Not classified
Diethylene glycol	111-46-6	203-872-2	1-9	Xn; R22	Acute Tox. 4 (H302)
Triethylene glycol monobutyl ether	143-22-6	205-592-6	1-5	Xi; R41	Eye Dam. 1 (H318)
Cyan Dye	*	*	1-5	Not classified	Not classified
Water	7732-18-5	231-791-2	65-75	Not classified	Not classified
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Xn; R22 Xi; R41 Xi; R38 R43 N; R50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

For the full text of R-phrases and H-Statements see Section 16

\* Registered

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	If symptoms persist, obtain medical attention.
Inhalation	Obtain medical attention. In case of accident by inhalation remove casualty to fresh air and keep at rest.
Skin contact	Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.
Eye contact	Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
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	Skin contact: Repeated and/or prolonged skin contact may cause irritation.
effects, both acute and delayed	Eye contact: May cause eye irritation.
	Ingestion: Ingestion may cause irritation of the gastrointestinal tract. Unlikely route of exposure.
	Inhalation: Unlikely route of exposure.
4.3 Indication of any immediate medical attention and special	Treat symptomatically.

me treatment needed



Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHC023–01-EUUSOTHER

Product name: LC10EC, LC12EC, LC15EC, LC101C, LC103C, LC105C, LC110C, LC111C, LC113C, LC115C, LC121C, LC123C, LC125XLC, LC131C, LC133C, LC135XLC, LC161C, LC163C, LC505C, LC525XLC, LC535XLC, LC545XLC, LC563C, LC565XLC, LC583C, LC585XLC, LC595XLC Ink

#### SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable Extinguishing Media Extinguish preferably with dry chemical, carbon dioxide, water spray, foam. Unsuitable Extinguishing Media None. 5.2 Special hazards arising from the Thermal decomposition of organic components may result in occurrence of oxides of carbon. Toxic substance or mixture gases may be formed upon combustion and represents a hazard to firefighters. Combustion products: See Section: 10. 5.3 Advice for firefighters 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.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid contact with eyes.
6.2 Environmental precautions	Prevent substance entering sewers. Washings must be prevented from entering surface water drains.
6.3 Methods and materials for containment and cleaning up	Wipe up with absorbent towel. Wash with water to remove remaining traces of ink.
6.4 Reference to other sections	For personal protection: See section 8. For disposal considerations: See section 13.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling	Keep out of the reach of children. Avoid contact with skin and eyes.
7.2 Conditions for safe storage, including any incompatibilities	Keep away from oxidizing agents.
7.3 Specific end use(s)	These products are dark blue ink in a cartridge for Brother Industries, Ltd. inkjet multifunction devices and fax receivers. This cartridge should be used as supplied by Brother and for use in the products stated.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control Parameters

#### **Occupational Exposure Limits**

Chemical Name	Glycerol 56-81-5
ACGIH TLV	TWA: 10 mg/m <sup>3</sup> mist
OSHA PEL	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction
European Union	-



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Product name: LC10EC, LC12EC, LC15EC, LC101C, LC103C, LC105C, LC110C, LC111C, LC113C, LC115C, LC121C, LC123C, LC125XLC, LC131C, LC133C, LC135XLC, LC161C, LC163C, LC505C, LC525XLC, LC535XLC, LC545XLC, LC563C, LC565XLC, LC583C, LC585XLC, LC595XLC lnk

The United Kingdom	STEL: 30 mg/m <sup>3</sup>
_	TWA: 10 mg/m <sup>3</sup>
France	TWA: 10 mg/m <sup>3</sup>
Spain	TWA: 10 mg/m <sup>3</sup>
Germany	TWA: 50 mg/m <sup>3</sup>
	Ceiling / Peak: 100 mg/m <sup>3</sup>
Portugal	TWA: 10 mg/m <sup>3</sup>
Finland	TWA: 20 mg/m <sup>3</sup>
Switzerland	STEL: 100 mg/m <sup>3</sup>
	TWA: 50 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup>
Chemical Name	Diethylene glycol
	111-46-6
ACGIH TLV	-
OSHA PEL	-
European Union	
The United Kingdom	STEL: 69 ppm
5	STEL: 303 mg/m <sup>3</sup>
	TWA: 23 ppm
	TWA: 101 mg/m <sup>3</sup>
Germany	TWA: 10 ppm
	TWA: 44 mg/m <sup>3</sup>
	Ceiling / Peak: 40 ppm
	Ceiling / Peak: 176 mg/m <sup>3</sup>
Denmark	TWA: 2.5 ppm
	TWA: 11 mg/m <sup>3</sup>
Austria	STEL 40 ppm
	STEL 176 mg/m <sup>3</sup>
	TWA: 10 ppm
	TWA: 44 mg/m <sup>3</sup>
Switzerland	STEL: 40 ppm
	STEL: 176 mg/m <sup>3</sup>
	TWA: 10 ppm
	TWA: 44 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>
Ireland	TWA: 23 ppm
	TWA: 100 mg/m <sup>3</sup>

#### 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 Protection Hand Protection Skin and body protection	Safety goggles. Protective gloves. Long sleeved clothing and long pants.
Respiratory protection	Large spillages: Wear suitable respiratory protective equipment.

Environmental Exposure Controls Avoid release to the environment.



Product name: LC10EC, LC12EC, LC15EC, LC101C, LC103C, LC105C, LC110C, LC111C, LC113C, LC115C, LC121C, LC123C, LC125XLC, LC131C, LC133C, LC135XLC, LC161C, LC163C, LC505C, LC525XLC, LC535XLC, LC545XLC, LC563C, LC565XLC, LC583C, LC585XLC, LC595XLC lnk

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance Physical state Color Odor Odor Threshold pH Melting point/freezing point Initial boiling point and boiling range Flash Point

Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits Vapor pressure Vapor density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidizing properties

#### Liquid Dark blue Slight No information available 7 - 9 -/<-5 °C 100 °C > Not less than 93.3°C (Tag closed cup; Cleveland open cup) No information available Not applicable No information available No information available No information available 1.0 - 1.1 (H<sub>2</sub>O=1) Soluble (water) No information available >400 °C No information available 2 - 5 mPa·s Not explosive 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.
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	No information available.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Contains: Carbon monoxide (CO). Carbon dioxide (CO $_2$ ).



Product name: LC10EC, LC12EC, LC15EC, LC101C, LC103C, LC105C, LC110C, LC111C, LC113C, LC115C, LC121C, LC123C, LC125XLC, LC131C, LC133C, LC135XLC, LC161C, LC163C, LC505C, LC525XLC, LC535XLC, LC545XLC, LC563C, LC565XLC, LC583C, LC585XLC, LC595XLC lnk

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## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Inhalation Eye contact Skin contact Ingestion	No information available. No information available. No information available. LD <sub>50</sub> > 2000 mg/kg (Method: OECD#420)
Skin corrosion/irritation	Non-irritant. (Method: OECD#404)
Serious eye damage/irritation	Minimal irritant to the eye. (Method: OECD#405)
Respiratory or skin sensitisation	It is not a skin sensitizer. (Method: OECD#429)
Mutagenicity	Negative. (Method: OECD#471)
Carcinogenicity	Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA



Product name: LC10EC, LC12EC, LC15EC, LC101C, LC103C, LC105C, LC110C, LC111C, LC113C, LC115C, LC121C, LC123C, LC125XLC, LC131C, LC133C, LC135XLC, LC161C, LC163C, LC505C, LC525XLC, LC535XLC, LC545XLC, LC563C, LC565XLC, LC583C, LC585XLC, LC595XLC Ink

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHC023–01-EUUSOTHER

## SECTION 12: Ecological information

#### 12.1 Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol		LC <sub>50</sub> : 51 - 57 mL/L 96 h	EC <sub>50</sub> : >500 mg/L 24 h
56-81-5		static (Oncorhynchus mykiss)	(Daphnia magna)
Diethylene glycol 111-46-6		LC <sub>50</sub> : 75200 mg/L 96 h flow-through (Pimephales promelas)	EC₅₀: 84000 mg/L 48 h (Daphnia magna)
Triethylene glycol monobutyl ether	EC <sub>50</sub> : >500 mg/L 72 h	$ \begin{array}{l} LC_{50} \colon 2200 - 4600 \text{ mg/L 96 h} \\ \text{static (Leuciscus idus)} \\ LC_{50} \colon 2400 \text{ mg/L 96 h} \\ \text{static (Pimephales promelas)} \\ LC_{50} \colon 2400 \text{ mg/L 96 h} \\ (Pimephales promelas) \end{array} $	EC₅0: >500 mg/L 48 h
143-22-6	(Desmodesmus subspicatus)		(Daphnia magna)

12.2 Persistance and degradability No information available.

#### 12.3 Bioaccumulative potential

Chemical Name		log Pow
Glyce	rol	-1.76
Diethylene	glycol	-1.98
Triethylene glycol monobutyl ether		0.51
12.4 Mobility in soil	No information available.	
12.5 Results of PBT and vPvB assessment		ostance considered to be persistent, bioaccumulating nor toxic (PBT). ostance considered to be very persistent nor very bioaccumulating

ment 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 of in accordance with Federal, State, and local regulations.



Product name: LC10EC, LC12EC, LC15EC, LC101C, LC103C, LC105C, LC110C, LC111C, LC113C, LC115C, LC121C, LC123C, LC125XLC, LC131C, LC133C, LC135XLC, LC161C, LC163C, LC505C, LC525XLC, LC535XLC, LC545XLC, LC563C, LC565XLC, LC583C, LC585XLC, LC595XLC lnk

## SECTION 14: Transport information

Not classified according to the United Nations "Recommendations on the Transport of Dangerous Goods"

14.1 UN Number	None
14.2 UN proper shipping name	None
14.3 Transport hazard class(es)	None
14.4 Packing Group	None
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	Not applicable

Not regulated under DOT, IMDG, IATA.

### SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 EU:Not classified as dangerous for supply/use. (1999/45/EC)

 USA: All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules.

 Canada: WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment No.

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHC023–01-EUUSOTHER



Product name: LC10EC, LC12EC, LC15EC, LC101C, LC103C, LC105C, LC110C, LC111C, LC113C, LC115C, LC121C, LC123C, LC125XLC, LC131C, LC133C, LC135XLC, LC161C, LC163C, LC505C, LC525XLC, LC535XLC, LC545XLC, LC563C, LC565XLC, LC583C, LC585XLC, LC595XLC Ink

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHC023–01-EUUSOTHER

## SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3	R22 - Harmful if swallowed R41 - Risk of serious damage to eyes R38 - Irritating to skin R43 - May cause sensitization by skin contact R50 - Very toxic to aquatic organisms
Full text of H-Statements referred to under sections 2 and 3	H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage H317 - May cause an allergic skin reaction H400 - Very toxic to aquatic life
Additional information	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).
Revision Note	SECTION 1, 2.
References:	U.S. 29CFR Part 1910 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization EU Directive 91/322/EEC and 2000/39/EC NTP 11th Report on Carcinogens
Abbreviations:	ACGIH: American Conference of Governmental Industrial Hygienists DOT: Department Of Transportation (US) IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods NOHSC: National Occupational Health and Safety Commission (Australia) NTP: National Toxicology Program (US) OSHA: Occupational Safety and Health Administration (US) PEL: Permiss ble Exposure Limit STEL: Short Term Exposure Limit TLV: Threshold Limit Value (ACGIH) TSCA: Toxic Substances Control Act (US) TWA: Time Weighted Average WHMIS: Workplace Hazardous Material Information System (Canada)

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Product name: LC10EM, LC12EM, LC15EM, LC101M, LC103M, LC105M, LC110M, LC111M, LC113M, LC115M, LC121M, LC123M, LC125XLM, LC131M, LC133M, LC135XLM, LC161M, LC163M, LC505M, LC525XLM, LC535XLM, LC545XLM, LC563M, LC565XLM, LC583M, LC585XLM, LC595XLM Ink

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHM023–01-EUUSOTHER

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

 
 Product name (code)
 LC10EM(LK9898001), LC12EM(LK9922001), LC15EM(LK9910001), LC101M(LK7324001), LC103M(LK6539001), LC105M(LK6578001), LC110M(LK7509001), LC111M(LK7477001), LC113M(LK6870001), LC115M(LK6902001), LC121M(LK7372001), LC123M(LK6812001), LC125XLM(LK6926001), LC131M(LK7408001), LC133M(LK7244001), LC135XLM(LK7211001), LC161M(LK7654001), LC163M(LK7658001), LC505M(LK7727001), LC525XLM(LK7731001), LC535XLM(LK7735001), LC545XLM(LK7740001), LC563M(LK6972001), LC565XLM(LK6976001), LC583M(LK7003001), LC585XLM(LK7007001), LC595XLM(LK7019001)

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

Relevant Identified Use(s)	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.

#### 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
Importer (USA)	Brother International Corporation 200 Crossing Boulevard, Bridgewater, NJ 08807, USA Telephone (for information): +1-877-276-8437
Importer (Canada)	Brother International Corporation (Canada) Ltd. 1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada Telephone (for information): +1-514-685-0600
Importer (Europe)	Brother International Europe Ltd. Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531
Importer (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
E-mail Address	sds.info@brother.co.jp
4 Emergency telephone number	
Emergency Telephone (24 hours)	CHEMTREC +1-703-527-3887 (International) +1-800-424-9300 (North America) +61-290372994 (Australia) For France only:
	Antipoison Center telephone number: ORFILA +33-1-45-425-959

1.4



Product name: LC10EM, LC12EM, LC15EM, LC101M, LC103M, LC105M, LC110M, LC111M, LC113M, LC115M, LC121M, LC123M, LC125XLM, LC131M, LC133M, LC135XLM, LC161M, LC163M, LC505M, LC525XLM, LC535XLM, LC545XLM, LC563M, LC565XLM, LC583M, LC585XLM, LC595XLM Ink

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHM023–01-EUUSOTHER

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not classified as hazardous

#### **Classification according to OSHA GHS**

Not classified as hazardous

#### Australia Classification

Not classified as hazardous according to the criteria of NOHSC

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms
None

Signal Word None

#### Hazard Statements

EUH208 - Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements None

#### 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).



Product name: LC10EM, LC12EM, LC15EM, LC101M, LC103M, LC105M, LC110M, LC111M, LC113M, LC115M, LC121M, LC123M, LC125XLM, LC131M, LC133M, LC135XLM, LC161M, LC163M, LC505M, LC525XLM, LC535XLM, LC545XLM, LC563M, LC565XLM, LC583M, LC585XLM, LC595XLM Ink

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

**Description of the mixture:** Water based inkjet ink (Mixture).

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)
Glycerol	56-81-5	200-289-5	10-20	Not classified	Not classified
Magenta Dye	*	*	<2.5	N; R51/53	Aquatic Chronic 2 (H411)
Water	7732-18-5	231-791-2	65-80	Not classified	Not classified
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Xn; R22	Acute Tox. 4 (Oral), H302
				Xi; R41	Skin Irrit. 2, H315
				Xi; R38	Eye Dam. 1, H318
				R43	Skin Sens. 1, H317
				N; R50	Aquatic Acute 1, H400

For the full text of R-phrases and H-Statements see Section 16

#### \* Registered

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	If symptoms persist, obtain medical attention.	
Inhalation	Obtain medical attention. In case of accident by inhalation remove casualty to fresh air and keep at rest.	
Skin contact	Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.	
Eye contact	Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.	
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	Skin contact: Repeated and/or prolonged skin contact may cause irritation.	
effects, both acute and delayed	Eye contact: May cause eye irritation.	
	Ingestion: Ingestion may cause irritation of the gastrointestinal tract. Unlikely route of exposure.	
	Inhalation: Unlikely route of exposure.	
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically.	



Product name: LC10EM, LC12EM, LC15EM, LC101M, LC103M, LC105M, LC110M, LC111M, LC113M, LC115M, LC121M, LC123M, LC125XLM, LC131M, LC133M, LC135XLM, LC161M, LC163M, LC505M, LC525XLM, LC535XLM, LC545XLM, LC563M, LC565XLM, LC583M, LC585XLM, LC595XLM Ink

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHM023–01-EUUSOTHER

SECTION 5: Firefighting measures		
5.1 Extinguishing media Suitable Extinguishing Media	Extinguish preferably with dry chemical, carbon dioxide, water spray, foam.	
Unsuitable Extinguishing Media	None.	
5.2 Special hazards arising from the substance or mixture	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.	
5.3 Advice for firefighters	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.	

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid contact with eyes.	
6.2 Environmental precautions	Prevent substance entering sewers. Washings must be prevented from entering surface water drains.	
6.3 Methods and materials for containment and cleaning up	Wipe up with absorbent towel. Wash with water to remove remaining traces of ink.	
6.4 Reference to other sections	For personal protection: See section 8. For disposal considerations: See section 13.	

## SECTION 7: Handling and storage

7.1 Precautions for safe handling	Keep out of the reach of children. Avoid contact with skin and eyes.	
7.2 Conditions for safe storage, including any incompatibilities	Keep away from oxidizing agents.	
7.3 Specific end use(s)	These products are dark red ink in a cartridge for Brother Industries, Ltd. inkjet multifunction dev	

#### These products are dark red ink in a cartridge for Brother Industries, Ltd. inkjet multifunction devices and fax receivers. This cartridge should be used as supplied by Brother and for use in the products stated.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control Parameters

#### **Occupational Exposure Limits**

Chemical Name	Glycerol 56-81-5
ACGIH TLV	TWA: 10 mg/m <sup>3</sup> mist
OSHA PEL	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction
European Union	-



Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHM023–01-EUUSOTHER

Product name: LC10EM, LC12EM, LC15EM, LC101M, LC103M, LC105M, LC110M, LC111M, LC113M, LC115M, LC121M, LC123M, LC125XLM, LC131M, LC133M, LC135XLM, LC161M, LC163M, LC505M, LC525XLM, LC535XLM, LC545XLM, LC563M, LC565XLM, LC583M, LC585XLM, LC595XLM Ink

The United Kingdom	STEL: 30 mg/m <sup>3</sup>
	TWA: 10 mg/m <sup>3</sup>
France	TWA: 10 mg/m <sup>3</sup>
Spain	TWA: 10 mg/m <sup>3</sup>
Germany	TWA: 50 mg/m <sup>3</sup> Ceiling / Peak: 100 mg/m <sup>3</sup>
	Ceiling / Peak: 100 mg/m <sup>3</sup>
Portugal	TWA: 10 mg/m <sup>3</sup>
Finland	TWA: 20 mg/m <sup>3</sup>
Switzerland	STEL: 100 mg/m <sup>3</sup> TWA: 50 mg/m <sup>3</sup>
	TWA: 50 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup>

#### 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 Protection Hand Protection	Safety goggles. Protective gloves.		
Skin and body protection	Long sleeved clothing and long pants.		
Respiratory protection	Large spillages: Wear suitable respiratory protective equipment.		
Environmental Exposure Controls	Avoid release to the environment.		



Product name: LC10EM, LC12EM, LC15EM, LC101M, LC103M, LC105M, LC110M, LC111M, LC113M, LC115M, LC121M, LC123M, LC125XLM, LC131M, LC133M, LC135XLM, LC161M, LC163M, LC505M, LC525XLM, LC535XLM, LC545XLM, LC563M, LC565XLM, LC583M, LC585XLM, LC595XLM Ink

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### **SECTION 9: Physical and chemical properties**

Liquid

#### 9.1 Information on basic physical and chemical properties

Appearance Physical state Color Odor Odor Threshold pH Melting point/freezing point Initial boiling point and boiling range Flash Point

Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits Vapor pressure Vapor density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidizing properties

#### Dark red Slight No information available 7 - 9 -/<-5 °C 100 °C > Not less than 93.3°C (Tag closed cup; Cleveland open cup) No information available Not applicable No information available No information available No information available 1.0 - 1.1 (H<sub>2</sub>O=1) Soluble (water) No information available >400 °C No information available 2 - 5 mPa·s Not explosive 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.
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	No information available.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Contains: Carbon monoxide (CO). Carbon dioxide (CO $_2$ ).



Product name: LC10EM, LC12EM, LC15EM, LC101M, LC103M, LC105M, LC110M, LC111M, LC113M, LC115M, LC121M, LC123M, LC125XLM, LC131M, LC133M, LC135XLM, LC161M, LC163M, LC505M, LC525XLM, LC535XLM, LC545XLM, LC563M, LC565XLM, LC583M, LC585XLM, LC595XLM Ink

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## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity

Inhalation Eye contact Skin contact Ingestion	No information available. No information available. No information available. LD <sub>50</sub> > 2000 mg/kg (Method: OECD#420)	
Skin corrosion/irritation	Non-irritant. (Method: OECD#404)	
Serious eye damage/irritation	Minimal irritant to the eye. (Method: OECD#405)	
Respiratory or skin sensitisation	It is not a skin sensitizer. (Method: OECD#429)	
Mutagenicity	Negative. (Method: OECD#471)	
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

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol		LC <sub>50</sub> : 51 - 57 mL/L 96 h	EC <sub>50</sub> : >500 mg/L 24 h
56-81-5		static (Oncorhynchus mykiss)	(Daphnia magna)

12.2 Persistance and degradability No information available.

#### 12.3 Bioaccumulative potential

Chemical Name		log Pow
Glycer	ol	-1.76
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 of in accordance with Federal, State, and local regulations.



Product name: LC10EM, LC12EM, LC15EM, LC101M, LC103M, LC105M, LC110M, LC111M, LC113M, LC115M, LC121M, LC123M, LC125XLM, LC131M, LC133M, LC135XLM, LC161M, LC163M, LC505M, LC525XLM, LC535XLM, LC545XLM, LC563M, LC565XLM, LC583M, LC585XLM, LC595XLM Ink

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## **SECTION 14: Transport information**

Not classified according to the United Nations "Recommendations on the Transport of Dangerous Goods"

14.1 UN Number	None
14.2 UN proper shipping name	None
14.3 Transport hazard class(es)	None
14.4 Packing Group	None
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	Not applicable

Not regulated under DOT, IMDG, IATA.

### SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 EU:Not classified as dangerous for supply/use. (1999/45/EC)

 USA: All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules.

 Canada: WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment No.



Product name: LC10EM, LC12EM, LC15EM, LC101M, LC103M, LC105M, LC110M, LC111M, LC113M, LC115M, LC121M, LC123M, LC125XLM, LC131M, LC133M, LC135XLM, LC161M, LC163M, LC505M, LC525XLM, LC535XLM, LC545XLM, LC563M, LC565XLM, LC583M, LC585XLM, LC595XLM Ink

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHM023–01-EUUSOTHER

## SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3	<ul> <li>R22 - Harmful if swallowed</li> <li>R41 - Risk of serious damage to eyes</li> <li>R38 - Irritating to skin</li> <li>R43 - May cause sensitization by skin contact</li> <li>R50 - Very toxic to aquatic organisms</li> <li>R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</li> </ul>
Full text of H-Statements referred to under sections 2 and 3	H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage H317 - May cause an allergic skin reaction H400 - Very toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects
Additional information	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).
Revision Note	SECTION 1, 2.
References:	U.S. 29CFR Part 1910 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization EU Directive 91/322/EEC and 2000/39/EC NTP 11th Report on Carcinogens
Abbreviations:	ACGIH: American Conference of Governmental Industrial Hygienists DOT: Department Of Transportation (US) IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods NOHSC: National Occupational Health and Safety Commission (Australia) NTP: National Toxicology Program (US) OSHA: Occupational Safety and Health Administration (US) PEL: Permiss ble Exposure Limit STEL: Short Term Exposure Limit TLV: Threshold Limit Value (ACGIH) TSCA: Toxic Substances Control Act (US) TWA: Time Weighted Average WHMIS: Workplace Hazardous Material Information System (Canada)



Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

 
 Product name (code)
 LC10EY(LK9899001), LC12EY(LK9923001), LC15EY(LK9911001), LC101Y(LK7325001), LC103Y(LK6540001), LC105Y(LK6579001), LC110Y(LK7510001), LC111Y(LK7478001), LC113Y(LK6871001), LC115Y(LK6903001), LC121Y(LK7373001), LC123Y(LK6813001), LC125XLY(LK6927001), LC131Y(LK7409001), LC133Y(LK7245001), LC135XLY(LK7212001), LC161Y(LK7655001), LC163Y(LK7659001), LC505Y(LK7728001), LC525XLY(LK7732001), LC535XLY(LK7736001), LC545XLY(LK7741001), LC563Y(LK6973001), LC565XLY(LK6977001), LC583Y(LK7004001), LC585XLY(LK7008001), LC595XLY(LK7020001)

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

Relevant Identified Use(s)	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.

#### 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
Importer (USA)	Brother International Corporation 200 Crossing Boulevard, Bridgewater, NJ 08807, USA Telephone (for information): +1-877-276-8437
Importer (Canada)	Brother International Corporation (Canada) Ltd. 1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada Telephone (for information): +1-514-685-0600
Importer (Europe)	Brother International Europe Ltd. Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531
Importer (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
E-mail Address	sds.info@brother.co.jp
1.4 Emergency telephone number	
Emergency Telephone (24 hours)	CHEMTREC +1-703-527-3887 (International) +1-800-424-9300 (North America) +61-290372994 (Australia) For France only: Antipoison Center telephone number: ORFILA +33-1-45-425-959



Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

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## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not classified as hazardous

#### **Classification according to OSHA GHS**

Not classified as hazardous

#### Australia Classification

Not classified as hazardous according to the criteria of NOHSC

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms
None

Signal Word None

#### Hazard Statements

EUH208 - Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements None

#### 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).



Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

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## SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description of the mixture:** Water based inkjet ink (Mixture).

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)
Glycerol	56-81-5	200-289-5	5-15	Not classified	Not classified
Triethylene glycol monobutyl ether	143-22-6	205-592-6	1-5	Xi; R41	Eye Dam. 1 (H318)
Yellow Dye	*	*	≤5	Not classified	Not classified
Water	7732-18-5	231-791-2	65-80	Not classified	Not classified
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Xn; R22 Xi; R41 Xi; R38 R43 N; R50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

For the full text of R-phrases and H-Statements see Section 16

#### \* Registered

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	If symptoms persist, obtain medical attention.
Inhalation	Obtain medical attention. In case of accident by inhalation remove casualty to fresh air and keep at rest.
Skin contact	Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.
Eye contact	Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
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	Skin contact: Repeated and/or prolonged skin contact may cause irritation.
effects, both acute and delayed	Eye contact: May cause eye irritation.
	Ingestion: Ingestion may cause irritation of the gastrointestinal tract. Unlikely route of exposure.
	Inhalation: Unlikely route of exposure.
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically.



Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

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SECTION 5: Firefighting measures		
5.1 Extinguishing media Suitable Extinguishing Media	Extinguish preferably with dry chemical, carbon dioxide, water spray, foam.	
Unsuitable Extinguishing Media	None.	
5.2 Special hazards arising from the substance or mixture	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.	
5.3 Advice for firefighters	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.	

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid contact with eyes.
6.2 Environmental precautions	Prevent substance entering sewers. Washings must be prevented from entering surface water drains.
6.3 Methods and materials for containment and cleaning up	Wipe up with absorbent towel. Wash with water to remove remaining traces of ink.
6.4 Reference to other sections	For personal protection: See section 8. For disposal considerations: See section 13.

## SECTION 7: Handling and storage

7.1 Precautions for safe handling	Keep out of the reach of children. Avoid contact with skin and eyes.
7.2 Conditions for safe storage, including any incompatibilities	Keep away from oxidizing agents.
7.3 Specific end use(s)	These products are dark yellow ink in a cartridge for Brother Industries, Ltd. inkjet multifunction devices and fax receivers. This cartridge should be used as supplied by Brother and for use in the products stated.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control Parameters

#### **Occupational Exposure Limits**

Chemical Name	Glycerol 56-81-5
ACGIH TLV	TWA: 10 mg/m <sup>3</sup> mist
OSHA PEL	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction
European Union	-



Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHY023–01-EUUSOTHER

Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

The United Kingdom	STEL: 30 mg/m <sup>3</sup>
-	TWA: 10 mg/m <sup>3</sup>
France	TWA: 10 mg/m <sup>3</sup>
Spain	TWA: 10 mg/m <sup>3</sup>
Germany	TWA: 50 mg/m <sup>3</sup> Ceiling / Peak: 100 mg/m <sup>3</sup>
	Ceiling / Peak: 100 mg/m <sup>3</sup>
Portugal	TWA: 10 mg/m <sup>3</sup>
Finland	TWA: 20 mg/m <sup>3</sup>
Switzerland	STEL: 100 mg/m <sup>3</sup>
	TWA: 50 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup>

#### 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 Protection	Safety goggles.
Hand Protection	Protective gloves.
Skin and body protection	Long sleeved clothing and long pants.
Respiratory protection	Large spillages: Wear suitable respiratory protective equipment.
Environmental Exposure Controls	Avoid release to the environment.



Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHY023–01-EUUSOTHER

## SECTION 9: Physical and chemical properties

Liquid

#### 9.1 Information on basic physical and chemical properties

Appearance Physical state Color Odor Odor Threshold pH Melting point/freezing point Initial boiling point and boiling range Flash Point

Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits Vapor pressure Vapor density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidizing properties

#### Dark yellow Slight No information available 7 - 9 -/<-5 °C > 100 °C Not less than 93.3°C (Tag closed cup; Cleveland open cup) No information available Not applicable No information available No information available No information available 1.0 - 1.1 (H<sub>2</sub>O=1) Soluble (water) No information available >400 °C No information available 2 - 5 mPa·s Not explosive 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.
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	No information available.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Contains: Carbon monoxide (CO). Carbon dioxide (CO $_2$ ).



Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY Ink Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHY023–01-EUUSOTHER

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Carcinogenicity	Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA
Mutagenicity	Negative. (Method: OECD#471)
Respiratory or skin sensitisation	It is not a skin sensitizer. (Method: OECD#429)
Serious eye damage/irritation	Minimal irritant to the eye. (Method: OECD#405)
Skin corrosion/irritation	Non-irritant. (Method: OECD#404)
Inhalation Eye contact Skin contact Ingestion	No information available. No information available. No information available. LD <sub>50</sub> > 2000 mg/kg (Method: OECD#420)



Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHY023–01-EUUSOTHER

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol		LC <sub>50</sub> : 51 - 57 mL/L 96 h	EC <sub>50</sub> : >500 mg/L 24 h
56-81-5		static (Oncorhynchus mykiss)	(Daphnia magna)
Triethylene glycol monobutyl ether	EC <sub>50</sub> : >500 mg/L 72 h	LC <sub>50</sub> : 2200 - 4600 mg/L 96 h	EC <sub>50</sub> : >500 mg/L 48 h
143-22-6	(Desmodesmus subspicatus)	static (Leuciscus idus)	(Daphnia magna)
		LC <sub>50</sub> : 2400 mg/L 96 h	
		static (Pimephales promelas)	
		LC <sub>50</sub> : 2400 mg/L 96 h	
		(Pimephales promelas)	

#### 12.2 Persistance and degradability

No information available.

#### 12.3 Bioaccumulative potential

Chemical Name	log Pow
Glycerol	-1.76
Triethylene glycol monobutyl ether	0.51

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 of in accordance with Federal, State, and local regulations.

### **SECTION 14: Transport information**

Not classified according to the United Nations "Recommendations on the Transport of Dangerous Goods"

14.1 UN Number	None
14.2 UN proper shipping name	None
14.3 Transport hazard class(es)	None
14.4 Packing Group	None
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	Not applicable

Not regulated under DOT, IMDG, IATA.



Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC585XLY, LC595XLY Ink

Issuing Date: 26-October-2011 Revision Date: 22-June -2017 Version: 6.1 SDS No: BHY023–01-EUUSOTHER

## **SECTION 15: Regulatory information**

	<b>EU:</b> Not classified as dangerous for supply/use. (1999/45/EC) <b>USA:</b> All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules. <b>Canada:</b> WHMIS: Not applicable. (Manufactured article)
15.2 Chemical Safety Assessment	No.

## **SECTION 16: Other information**

Full text of R-phrases referred to under sections 2 and 3	R22 - Harmful if swallowed R41 - Risk of serious damage to eyes R38 - Irritating to skin R43 - May cause sensitization by skin contact R50 - Very toxic to aquatic organisms
Full text of H-Statements referred to under sections 2 and 3	H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage H317 - May cause an allergic skin reaction H400 - Very toxic to aquatic life
Additional information	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).
Revision Note	SECTION 1, 2.
References:	U.S. 29CFR Part 1910 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization EU Directive 91/322/EEC and 2000/39/EC NTP 11th Report on Carcinogens
Abbreviations:	ACGIH: American Conference of Governmental Industrial Hygienists DOT: Department Of Transportation (US) IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods NOHSC: National Occupational Health and Safety Commission (Australia) NTP: National Toxicology Program (US) OSHA: Occupational Safety and Health Administration (US) PEL: Permiss ble Exposure Limit STEL: Short Term Exposure Limit TLV: Threshold Limit Value (ACGIH) TSCA: Toxic Substances Control Act (US) TWA: Time Weighted Average WHMIS: Workplace Hazardous Material Information System (Canada)