

Issuing Date: 26-October-2011 1-April -2015 Revision Date: Version: 6 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, LC585XLC Ink

### 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

#### 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)

For France only:

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



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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

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

4.1 Description	n 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

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

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.

<sup>\*</sup> Registered



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The state of Minarcham	STEL: 30 mg/m <sup>3</sup>
The United Kingdom	TWA: 10 mg/m <sup>3</sup>
	TWA: 10 mg/m <sup>3</sup>
France	TWA: 10 mg/m <sup>3</sup>
Spain	TWA: 50 mg/m <sup>3</sup>
Germany	Ceiling / Peak: 100 mg/m³
	TWA: 10 mg/m <sup>3</sup>
Portugal	TWA: 20 mg/m <sup>3</sup>
Finland	STEL: 100 mg/m <sup>3</sup>
Switzerland	TWA: 50 mg/m <sup>3</sup>
	TWA: 10 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>
Ireland	Diethylene glycol
Chemical Name	111-46-6
The second three second second second	111-2-3
ACGIH TLV	
OSHA PEL	
European Union	STEL: 69 ppm
The United Kingdom	STEL: 303 mg/m <sup>3</sup>
	TWA: 23 ppm
	TWA: 101 mg/m <sup>3</sup>
	TWA: 101 mg/m
Germany	TWA: 44 mg/m <sup>3</sup>
	Ceiling / Peak: 40 ppm
	Ceiling / Peak: 40 ppm  Ceiling / Peak: 176 mg/m <sup>3</sup>
	Celling / Feak. 170 mg/m
Denmark	TWA: 2.5 ppm
Deminan	TWA: 11 mg/m <sup>3</sup>
Austria	STEL 40 ppm
Addition	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>
-5	TWA: 10 ppm
	TWA: 44 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>
Ireland	TWA: 23 ppm
110101111	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 Safety goggles.
Hand Protection Protective gloves.

Long sleeved clothing and long pants.

Skin and body protection Respiratory protection

Large spillages: Wear suitable respiratory protective equipment.

Environmental Exposure Controls Avoid release to the environment.



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# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Inhalation

No information available.

Eye contact

No information available.

Skin contact Ingestion 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



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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 Not applicable

Code

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.



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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

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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

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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)

For France only:

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



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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)
	*	*	≤5	Not classified	Not classified
Yellow Dye 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

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

4.1 Description of	first aid	measures
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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

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

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

<sup>\*</sup> Registered



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# 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), LC565XLM(LK7740001), LC565XLM(LK7735001), LC565XLM(LK7740001), LC565XLM(LK7735001), LC565XLM(LK7740001), LC565XLM(LK7740001), LC565XLM(LK6976001), LC56XLM(LK6976001), LC56XLM(LK697

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

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

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

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#### 1.4 Emergency telephone number

**Emergency Telephone** 

(24 hours)

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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 Directive 1999/45/EC

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	10-20	Not classified	Not classified
	*	*	<2.5	N; R51/53	Aquatic Chronic 2 (H411)
Magenta Dye	7732-18-5	231-791-2	65-80	Not classified	Not classified
Water 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**

41	Description	of	first	aid	measures

If symptoms persist, obtain medical attention. General advice

Obtain medical attention. In case of accident by inhalation remove casualty to fresh air and keep at Inhalation

Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and Skin contact

Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of Eye contact

water for at least 15 minutes.

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

4.2 Most important symptoms and

effects, both acute and delayed

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

Eve 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.

<sup>\*</sup> Registered



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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

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 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/m³ mist
OSHA PEL	TWA: 15 mg/m³ mist, total particulate TWA: 5 mg/m³ mist, respirable fraction
European Union	



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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

The United Kingdom	STEL: 30 mg/m <sup>3</sup>	
The Officea Kingdom	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>	
Germany	Ceiling / Peak: 100 mg/m³	
Portugal	TWA: 10 mg/m <sup>3</sup>	
Finland	TWA: 20 mg/m <sup>3</sup>	
Switzerland	STEL: 100 mg/m <sup>3</sup>	
SWILZELIATIO	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

Good general ventilation should be sufficient under normal use. Appropriate engineering controls

Not normally required. For use other than in normal operating procedures (such as in the event of Personal protective equipment

large spill), the following should be applied:

Safety goggles. Eye Protection 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.



Issuing Date: 26-October-2011 1-April -2015 Revision Date: Version: 6 SDS No: BHM023-01-EUUSOTHER

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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

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 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<sub>2</sub>).



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## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity

Inhalation

No information available.

Eye contact

No information available.

Skin contact

No information available.

Ingestion

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

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

12.2 Persistance and degradability

No information available.

### 12.3 Bioaccumulative potential

Chemical Name	log Pow
Official France	-1.76
Glycerol	=1.70

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

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Not applicable

Code

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: 1-April -2015

Version: 6

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

## **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

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

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, 3.** 

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: Permissible 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)



Issuing Date: 26-October-2011 1-April -2015 Revision Date:

Version: 6

SDS No: BHY023-01-EUUSOTHER

Product name: LC10EY, LC12EY, LC15EY, LC101Y, LC103Y, Product name: LC10ET, LC12EY, LC15EY, LC10TY, LC103Y, LC105Y, LC110Y, LC111Y, LC113Y, LC115Y, LC121Y, LC123Y, LC125XLY, LC131Y, LC133Y, LC135XLY, LC161Y, LC163Y, LC505Y, LC525XLY, LC535XLY, LC545XLY, LC563Y, LC565XLY, LC583Y, LC565XLY, LC565XLY, LC583Y, LC565XLY, LC583Y, LC565XLY, LC583Y, LC565XLY, LC583Y, LC565XLY, LC583Y, LC565XLY, LC583Y, LC565XLY, LC583Y, LC565XLY, LC565XLY, LC583Y, LC565XLY, LC56XLY, LC56XLY LC585XLY, LC595XLY Ink

STEL: 30 mg/m <sup>3</sup>	
TWA: 10 mg/m <sup>3</sup>	
Ceiling / Peak: 100 mg/m <sup>3</sup>	
TWA: 10 mg/m <sup>3</sup>	
STEL: 100 mg/m <sup>3</sup>	
TWA: 50 mg/m <sup>3</sup>	
TWA: 10 mg/m <sup>3</sup>	
	STEL: 30 mg/m³ TWA: 10 mg/m³ TWA: 10 mg/m³ TWA: 10 mg/m³ TWA: 50 mg/m³ Ceiling / Peak: 100 mg/m³ TWA: 10 mg/m³ TWA: 20 mg/m³ TWA: 20 mg/m³ STEL: 100 mg/m³ TWA: 50 mg/m³ TWA: 50 mg/m³ TWA: 10 mg/m³ TWA: 10 mg/m³

#### 8.2 Exposure controls

Good general ventilation should be sufficient under normal use. Appropriate engineering controls

Not normally required. For use other than in normal operating procedures (such as in the event of Personal protective equipment

large spill), the following should be applied:

Eye Protection

Hand Protection

Safety goggles. Protective gloves.

Skin and body protection

Respiratory protection

Long sleeved clothing and long pants.

Large spillages: Wear suitable respiratory protective equipment.

Environmental Exposure Controls Avoid release to the environment.



Issuing Date: 26-October-2011 Revision Date: 1-April -2015

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

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### 11.1 Information on toxicological effects

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No information available.

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No information available.

Skin contact

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Negative. (Method: OECD#471)

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

monographs, NTP and OSHA



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### **SECTION 15: Regulatory information**

regulations/legislation specific for the substance or mixture

15.1 Safety, health and environmental EU:Not classified as dangerous for supply/use. (1999/45/EC)

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data reporting rules.

Canada: 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

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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 eve damage

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

Additional information

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(revision).

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