

Revision Date: 07-Jul-2021 **Issuing Date:** 19-Feb-2020

Safety data sheet number: BHK249

Revision Number: 4

Product Name: LC402BK, LC402XLBK, LC406BK, LC406LBK, LC406XLBK, LC412BK, LC412XLBK, LC416BK, LC416XLBK, LC417XLBK, LC418XLBK, LC422BK, LC422XLBK, LC426BK, LC426XLBK, LC427BK, LC427XLBK, LC428XLBK, LC432BK, LC432XLBK, LC436BK, LC436XLBK, LC456BK, LC456XLBK, LC462BK, LC462XLBK, LC472BK, LC472XLBK, LC492XLBK

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name LC402BK, LC402XLBK, LC406BK, LC406LBK, LC406XLBK, LC412XLBK,

LC416BK, LC416XLBK, LC417XLBK, LC418XLBK, LC422BK, LC422XLBK, LC426BK, LC426XLBK, LC427BK, LC427XLBK, LC428XLBK, LC432BK, LC432XLBK, LC436BK, LC436XLBK, LC456BK, LC456XLBK, LC462BK, LC462XLBK, LC472BK, LC472XLBK, LC472BK, LC472XLBK, LC472BK, LC472XLBK, LC472BK, LC472XLBK, LC472BK, LC472XLBK, LC472BK, LC472XLBK, LC472XLBK, LC472BK, LC472BK, LC472XLBK, LC472BK, L

LC492XLBK

Product Form Mixture

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

Relevant identified uses These products are 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.

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer Brother Industries, Ltd.

15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan

Telephone (for information): +81-52-824-2735

<u>Importer</u> (Europe)

Brother International Europe Ltd.

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

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands Telephone (for information): +44-161-330-6531

For further information, please contact

E-mail address sds.info@brother.co.jp

1.4. Emergency telephone number

Emergency Telephone CHEMTREC +1-703-527-3887 (International)

For France only:

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

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Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

2.2. Label elements

Regulation (EC) No 1272/2008

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

EUH208 - Contains 1,2-Benzisothiazolin-3-one May produce an allergic reaction.

2.3. Other hazards

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).

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable



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3.2 Mixtures

Chemical name	CAS No	EC No	EC Index No	Weight-%	Specific concentration limit (SCL)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Water	7732-18-5	231-791-2	-	60-70	-	Not classified	Not applicable
Glycerol	56-81-5	200-289-5	-	15-25	-	Not classified	Not applicable
Carbon Black	1333-86-4	215-609-9 435-640-3	-	5-9	-	Not classified	01-2119384822- 32-XXXX
Triethylene glycol, monobutyl ether	143-22-6	205-592-6	603-183-00-0	1-5	Eye Dam. 1 :: C>=30% Eye Irrit. 2 :: 20%<=C<30 %	Eye Dam. 1 (H318)	01-2119475107- 38-XXXX
2,2'-(ethylenedioxy)diethano	112-27-6	203-953-2	-	1-5	-	Not classified	Registered
1,2-Benzisothiazolin-3-one	2634-33-5	220-120-9	613-088-00-6	<0.05	Skin Sens. 1 :: C>=0.05%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	Not applicable

Full text of H- and EUH-phrases: see section 16

Section 4: First aid measures

4.1. Description of first aid measures

General advice If symptoms persist, call a physician.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get immediate medical advice/attention.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

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Skin contact: Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

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

Symptoms Inhalation (Vapor / Mist): No specific effects and/or symptoms have been reported or

known

For large quantities: May cause irritation to the respiratory system. Increased difficulty in

breathing. Sneezing. Coughing

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

Note to physicians Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO₂, water spray or regular foam

Unsuitable extinguishing media None

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the Therma

chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors Carbon

monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Oxides of sulfur

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid contact with skin, eyes or clothing

For emergency responders Use personal protection recommended in Section 8.

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6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for containmentAbsorb with earth, sand or other non-combustible material and transfer to containers for

later disposal.

Methods for cleaning up Wipe up with absorbent towel Wash with water to remove remaining traces of ink.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

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

Section 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions. Keep out of the reach of children. Keep cool. Protect from sunlight.

7.3. Specific end use(s)

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



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Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	United Kingdom	France	Spain	Germany
Glycerol	-	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 200 mg/m ³
56-81-5		STEL: 30 mg/m ³			
Carbon Black	-	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³	-
1333-86-4		STEL: 7 mg/m ³			
2,2'-(ethylenedioxy)dietha	-	-	=	-	TWA: 1000 mg/m ³
nol					
112-27-6					
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Glycerol	-	TWA: 10 mg/m ³	-	TWA: 20 mg/m ³	-
56-81-5					
Carbon Black	-	TWA: 3 mg/m ³	-	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³
1333-86-4				STEL: 7 mg/m ³	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Glycerol	-	TWA: 50 mg/m ³	TWA: 10 mg/m ³	-	-
56-81-5		STEL: 100 mg/m ³	_		
Carbon Black	-	-	TWA: 4 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³
1333-86-4			_	STEL: 7 mg/m ³	STEL: 15 mg/m ³
2,2'-(ethylenedioxy)dietha	-	TWA: 1000 mg/m ³	-	-	-
nol		STEL: 2000 mg/m ³			
112-27-6					

Derived No Effect Level (DNEL)No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Appropriate engineering controls No information available.

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

event of large spill), the following should be applied:

Eye/face protection Safety goggles.

Hand protection Protective gloves.

Skin and body protection If there is a risk of contact:, Apron, Boots

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Respiratory protection Use appropriate respiratory protection.

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

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 7 - 9 pH (as aqueous solution) No data available Melting point / freezing point < -5 °C

Boiling point / boiling range > 100 °C **Flash point** > 94 °C

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

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limit: No data available Lower flammability limit: No data available

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

Relative density 1.0 - 1.1
Water solubility Soluble in water

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

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone known

Dynamic viscosity2 - 5 mPa sExplosive propertiesNo information availableOxidizing propertiesNo information available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No information available

9.2.2. Other safety characteristics

No information available

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Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat, Keep away from water or moist air

10.5. Incompatible materials

Acids, Bases, Oxidizing agent, Reducing agent

10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NOx), Oxides of sulfur

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation No information available

Eve contact No information available

Skin contact: No information available

Ingestion Acute LD₅₀ > 2000 mg/kg (OECD 423 method)

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

Serious eye damage/eye irritation Non-irritant (OECD 405 method)

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Respiratory sensitization: No information available Respiratory or skin sensitization

It is not a skin sensitizer (OECD 442B method)

Germ cell mutagenicity AMES test: Negative (OECD 471 method)

Carbon Black: In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen Carcinogenicity

(possible human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any

association between carbon black and lung tumors.

Other ingredients of this product have not been classified as carcinogens according to

IARC monographs, NTP and OSHA

No information available. Reproductive toxicity

No information available. STOT - single exposure

STOT - repeated exposure No information available

Aspiration hazard No information available.

Potential health effects Eye: May cause slight irritation

Skin: Prolonged exposure may cause skin irritation

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Inhalation: Not an expected route of exposure Over exposure may cause respiratory

irritation.

11.2. Information on other hazards

No information available

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Section 12: Ecological information

12.1. Toxicity

Ecotoxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-
Carbon Black	-	1000:96 h Brachydanio rerio mg/L LC50	-	-
Triethylene glycol, monobutyl ether	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: =2400mg/L (96h, Pimephales promelas)	-	EC50: >500mg/L (48h, Daphnia magna)
2,2'-(ethylenedioxy)dietha nol	-	LC50: 56200 - 63700mg/L (96h, Pimephales promelas) LC50: =10000mg/L (96h, Lepomis macrochirus) LC50: =61000mg/L (96h, Lepomis macrochirus)		EC50: =42426mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Glycerol	-1.76
Triethylene glycol, monobutyl ether	0.51
2,2'-(ethylenedioxy)diethanol	-1.98
1,2-Benzisothiazolin-3-one	1.3

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. Endocrine disrupting properties

No information available.

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12.7. Other adverse effects

No information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Dispose in accordance with federal, state and local regulations.

Section 14: Transport information

IMDG

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Marine pollutant	Not applicable
14.6	Special Provisions	None

14.6 Special Provisions Nor

14.7 Transport in bulk according to Not applicable

Annex II of MARPOL 73/78 and the

IBC Code

F	₹I	D

UN/ID no	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Environmental hazard	Not applicable
Special Provisions	None
	Proper shipping name Hazard Class Packing group Environmental hazard

ADR

UN/ID no	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Environmental hazard	Not applicable
Special Provisions	None
	Proper shipping name Hazard Class Packing group Environmental hazard

IATA

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
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14.6 Special Provisions None

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Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

- * Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XVII.
- * Contains no substance listed in REACH Regulation (EC) No.1907/2006 Candidate List for Authorization.
- * Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XIV.

National Regulations

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

Legend

SVHC: Substances of Very High Concern for Authorization:

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value ** Trade secret

Key literature references and sources for data

No information available

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Revision Note

SDS sections updated: 3

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

Disclaimer

The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other process, and it is based on our best knowledge as of the date of preparation (revision).