



MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the Substance and Company/Undertaking

1.1	Product Identifier:	Brother Remanufactured LC123 Black, Cyan, Magenta, Yellow Rev 1 14/12/2015
1.2	Relevant identified uses of the substance and uses advised against	
	Use:	Ink for inkjet printer cartridges
	Relevant identified uses:	See above
	Environmental release category:	ERC8c (Wide dispersive indoor use resulting in inclusion into or onto a matrix) ERC11a (Wide dispersive indoor use of long-life articles and materials with low release)
	Mixture supplied to that use in form of:	A mixture
	Product Category by type of chemical:	PC18 (Ink and Toners)
	Sector of end use:	SU3, 21, 22 (Industrial, consumer and professional users)
	Uses advised against:	All other uses
1.3	Details of the supplier of the Safety data Sheet	
	Address:	Lyreco Rue du 19 Mars 1962 59770 Marly France
	Telephone Number:	+33(0)3 27 23 64 00
	Email Address:	msds@lyreco.com
1.4	Emergency Telephone:	+33(0)3 27 23 64 00

SECTION 2: Hazards Identification

2.1 Classification of the mixture

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2.1.1 Classification according to Regulation (EC) No 1272/2008 (including amendments):	None
2.1.2 Classification according to EU Directive 67/548/EEC (including amendments):	None
2.2 Label elements:	None
Signal word:	None
Hazard statements:	None
Precautionary statements:	None
Prevention:	None
Storage:	None
2.3 Other Hazards:	The product is a mixture containing mostly water with various other ingredients producing slight risk of irritation in their pure state
2.4 Additional Information:	The product is not classified as hazardous according to EC and National Regulations

SECTION 3: Composition / Information on Ingredients

3.1 Substances

Product identifier type in accordance with 67/548/EEC / 199/45/EC	Identifier number	Identification name	Weight % content (or range)	EC Number	Classification
CAS Number	57-55-6	Propylene glycol	<15%	200-338-0	
CAS Number	56-81-5	Glycerine	<10%	200-289-5	

Product identifier type in accordance with Article 18(2) of Regulation (EC) No 1272/2008	Identifier number	Identification name	Weight % content (or range)	EC Number	Classification
CAS Number	57-55-6	Propylene glycol	<15%	200-338-0	
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SECTION 4: First-Aid Measures

4.1 Description of First Aid Measures

Ingestion:	Give 2-4 cups full of milk or water, do not induce vomiting; seek medical advice
Skin contact:	Clean affected area with plenty of water, soap or other non-irritating cleanser
Eye contact:	Flush eyes with plenty of water until clear; seek medical advice if irritation persists
Inhalation:	Move the exposed person to fresh air at once. Seek medical advice
First Aider Protection:	None specific

4.2 Most important symptoms and effects, both acute and delayed

Ingestion:	None
Skin contact:	None
Eye contact:	None
Inhalation:	None

4.3 Indication of immediate medical attention and special treatment needed

General advice:	None specific
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SECTION 5: Fire-Fighting Measures

5.1 Extinguishing media (small and large fires)

Small Fire:	Water, water mist, foam, dry powder, CO2
Large Fire:	Water, water mist, foam, dry powder, CO2
Avoid:	None

5.2.1 Specific Hazards:	May create toxic materials, carbon dioxide, carbon monoxide, various hydrocarbons etc. on thermal decomposition Cartridges may burst if subjected to extreme heat
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5.2.2 Protective equipment and advice for fire fighters:	Self-contained breathing apparatus and full protective clothing
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SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency measures

6.1.1 **For non-emergency personnel:** During fitting and removal of cartridge apply usual precautions for handling of chemicals. Dispose of used cartridges safely, out of reach of children

6.1.2 **For emergency responders:** None specific

6.2 **Environmental precautions:** Take precautionary measures against discharges into the environment

6.3 Methods and material for containment and cleaning up

6.3.1 **For containment:** No hazard foreseen due to container size

6.3.2 **For cleaning up:** Apply normal mopping up procedures and dispose of waste as appropriate
Dispose of bulk spillage via local authority regulations

6.3.3 **Other information:** None

6.4 **Reference to other sections:** Section 8

SECTION 7: Handling and Storage

7.1 **Precautions for Safe Handling:** Handle with care
Do not store under heavy load conditions or at extremes of temperature
Keep out of reach of children

7.2 **Conditions for safe storage, including any incompatibilities:** None specific

7.3 **Specific end uses:** None

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Substance				
CAS No.				
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³

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8.2 Exposure controls

8.2.1 Engineering controls:

8.2.2 Personal protective equipment:

8.2.3 Environmental exposure controls:

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:

Odour:

Odour threshold:

pH:

Melting point:

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

Flammability:

Upper/lower flammability or explosive limits:

Vapour pressure:

Relative vapour density (air=1):

Relative density (water=1):

Solubility:

Partition coefficient (n-

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octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Explosive properties:

Oxidising properties:

9.2 Other information

Critical Temperature:

SECTION 10: Stability and Reactivity

10.1 Reactivity:

10.2 Chemical stability:

10.3 Possibility of hazardous reactions:

10.4 Conditions to Avoid:

10.5 Incompatible materials:

10.6 Hazardous decomposition products:

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity:

Skin corrosion/irritation:

Serious eye damage/irritation:

Respiratory or skin sensitisation:

Germ cell mutagenicity:

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Carcinogenicity:	Not Applicable
Reproductive toxicity:	Not Applicable
STOT-single exposure:	No Known Effects
STOT-repeated exposure:	No Known Effects
Aspiration hazard:	Not Applicable
Further information:	Toxicological effects unlikely due to size and nature of product design

SECTION 12: Ecological Information

12.1	Toxicity:	Ecological effects unlikely due to size and nature of product design, provided contents not disposed of in large quantities
12.2	Persistence and degradability:	Not Applicable
12.3	Bioaccumulative potential:	Not Applicable
12.4	Mobility in soil:	Not Applicable
12.5	Results of PBT and vPvB assessment:	The mixture does not contain any ingredients which are PBT, vPvB or Substances of Very high concern
12.6	Other adverse effects:	Not Applicable

SECTION 13: Disposal Considerations

13.1	Waste treatment methods:	Empty cartridges may be disposed of via local domestic waste regulations Full cartridges should be kept out of reach the of children until safely disposed of
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SECTION 14: Transport Information

14.1	UN Number:	Not Applicable
14.2	UN proper shipping name:	Not Applicable
14.3	Transport hazard class:	Not Applicable
14.4	Packing group:	Not Applicable
14.5	Environmental hazards:	Not Applicable

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14.6	Special Precautions for user:	Not Applicable
14.7	Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code:	Remark: not dangerous cargo, but keep separate from foodstuffs. No special transport requirements necessary under Approved Carriage of Dangerous Goods Regulations

SECTION 15: Regulatory Information

15.1	Safety, health and environmental regulations/legislation specific for the substance/mixture:	The information contained in this safety data sheet does not constitute the users own assessment of workplace risks as required by other health and safety regulations This product has been assessed to ensure of compliance to the EU REACH and CLP Regulations
15.2	Chemical Safety Assessment:	The product is determined as not being hazardous

SECTION 16: Other Information

Methods of evaluation:	None specific
References:	None specific
Abbreviations:	REACH – Registration, Evaluation, Authorisation and restriction of Chemicals CLP – Classification, labelling and Packaging of Substances and Mixtures EC No – European Commission Number UN Number - United Nations Committee of Experts WEL – Workplace Exposure Limit STOT – Specific Target Organ Toxicity PBT – Persistent, Bioaccumulative and Toxic vPvB - very Persistent and very Bioaccumulative
Text of risk phrases	
Text of Hazard Statements:	

The information contained herein is carefully presented, based on the data we have. However, all precautions described herein are for normal handling, not for special handling. Please establish the safe usage in accordance with your handling procedures by reference to this SDS and applicable laws and guidance. In addition, the description, composition, and physical/chemical properties are typical values and not guaranteed for this product.

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Appendix 1: Exposure Scenarios



ISO 9001
ISO 14001
ISO 18001