

MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the Substance and Company/Undertaking

1.1	Product Identifier:	Brother Remanufactured LC1220 Black Rev 1 22/08/2014
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:	Dynamic Cassette International Limited Marsh Lane Boston Lincolnshire PE21 7TX England
	Telephone Number:	+44 (0)1205 355555
	Email Address:	sales@dcj.co.uk
1.4	Emergency Telephone:	+44 (0)1205 355555 or 07901 825565

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 Article 18(2) of Regulation (EC) No 1272/2008	Identifier number	Identification name	Weight % content (or range)	EC Number
CAS Number	56-81-5	Glycerine	<15%	200-289-5
CAS Number in CLP Annex VI	111-46-6	Diethylene Glycol	<5%	203-872-2
CAS Number in CLP Annex VI	112-34-5	Butyl Carbitol	<5%	203-961-6

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
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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:	Slight irritation of the gastro-intestinal tract
Skin contact:	Slight irritation
Eye contact:	Slight irritation
Inhalation:	Slight irritation of the respiratory tract

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
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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

8.2 Exposure controls

8.2.1	Engineering controls:	None specific
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8.2.2 **Personal protective equipment:**

During fitting and removal of cartridge apply usual precautions for handling of chemicals. Dispose of used cartridges safely, out of reach of children

8.2.3 **Environmental exposure controls:**

Take precautionary measures against discharges into the environment

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:

Liquid

Odour:

Slight alcohol odour

Odour threshold:

Not Applicable

pH:

Not Applicable

Melting point:

Not Applicable

Initial boiling point and boiling range:

Not Applicable

Flash point:

Not Applicable

Evaporation rate:

Not Applicable

Flammability:

Not Applicable

Upper/lower flammability or explosive limits:

Not Applicable

Vapour pressure:

Not Applicable

Relative vapour density (air=1):

Not Applicable

Relative density (water=1):

Not Applicable

Solubility:

Miscible with water

Partition coefficient (n-octanol/water):

Not Applicable

Auto-ignition temperature:

Not Applicable

Decomposition temperature:

Not Applicable

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Viscosity: Not Applicable

Explosive properties: Not Applicable

Oxidising properties: Not Applicable

9.2 Other information

Critical Temperature: Not Applicable

SECTION 10: Stability and Reactivity

10.1 Reactivity: Product is stable under normal storage and usage conditions

10.2 Chemical stability: See above

10.3 Possibility of hazardous reactions: None

10.4 Conditions to Avoid: Extreme temperatures

10.5 Incompatible materials: None

10.6 Hazardous decomposition products: May create toxic materials, carbon dioxide, carbon monoxide, various hydrocarbons etc. on thermal decomposition

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity: Not Applicable

Skin corrosion/irritation: Not Applicable

Serious eye damage/irritation: Not Applicable

Respiratory or skin sensitisation: Not Applicable

Germ cell mutagenicity: Not Applicable

Carcinogenicity: Not Applicable

Reproductive toxicity: Not Applicable

STOT-single exposure: No Known Effects

STOT-repeated exposure: No Known Effects

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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

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

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

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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

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.

Appendix 1: Exposure Scenarios

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