

(Directive – 91/155/EEC)

Issue Date: 07 Feb., 2003

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**Product Name** MSDS No.: YLDE002 DR-200 Toner

# 1. Identification of Substance / Preparation and of the Company / Undertaking

1.1 Product details

1.1.1 Product Name(s)

: DR-200 Toner

1.1.2 Product Code

: Toner N1

This product is non-magnetic single component toner in a drum unit for Brother Industries Ltd. page printers and fax receivers.

1.2 Company details

1.2.1 Manufacturer

: Brother Industries, Ltd.

Information & Document Company

1-1-1, Kawagishi, Mizuho-ku, Nagoya 467-8562, Japan

Telephone (for information): +81-52-824-2545

1.2.2 Supplier

: Brother International Europe Ltd.

Brother house, 1 Tame Street, Guide Bridge,

Audenshaw, Manchester M34 5JE, UK

Telephone (for information): +44-161-330-6531

We do not provide 24 hour cover for information contact. Please telephone to the above office appropriate to you during our business hours.

### 2. Composition / Information on Ingredients

2.1 Chemical characterization

2.1.1 CAS number

2.1.2 Identification No.

2.2 Chemical characterization (preparation)

2.2.1 Description

: Mixture of Polyester resin, Carbon Black and

Additives

2.2.2 CAS number

2.2.3 Composition

: Polyester resin

: 63-64%

CAS No. 117581-13-2

:Polyester/Styrene-Acrylic grafted resin : 27-28%

CAS No. 149367-99-7

: Carbon Black (IARC Group 2B)

: 3-4%

CAS No. 1333-86-4

: Dyes

: 2-3%

CAS No. 8005-02-5

: <1%

CAS No. 9010-79-1

#### 3. Hazardous Identification

3.1 Special hazard information (R-phrase): -



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4. First Aid Measures

: Inhalation; Remove to fresh air if effects occur. 4.1 General Information

Consult local medical personnel.

Eyes; In case of contact, immediately flush eyes

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with plenty of water.

5. Fire-fighting Measures

5.1 Suitable extinction medium : Water spray, Foam, Dry chemicals and CO2

6. Accidental Release Measures

6.1 Personal precautionary measure : See first aid measures.

: Waste materials to be disposed of according 6.2 Environmental protection measure

to regulations.

6.3 Clean up measure : Sweep up or clean up with a vacuum cleaner.

6.4 Additional information

7. Handling and Storage

7.1 Handling

7.1.1 Safety data

7.1.2 Fire and explosion hazard data : These materials have no unusual fire or

explosion hazard.

7.2 Storage

: No special storage requirements for safety 7.2.1 Storage details

reasons.

7.2.2 Storage classification

8. Exposure Controls / Personal Protection

8.1 Personal safety

No personal protective device is required under the normal use.

In case that some accident causes considerable spill, the following measures are

suggested.

: Use a NIOSH/MSHA approved dust/mist 8.1.1 Breathing protection

respirator

: Use suitable protective gloves. 8.1.2 Hand protection

: Use protective goggles. 8.1.3 Eye protection

: Use protective suits. 8.1.4 Body protection

9. Physical - and Chemical Properties

9.1 Appearance

: Solid (Powder) 9.1.1 Physical state

9.1.2 Color : Black : None

9.1.3 Odor



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Issue Date: 07 Feb., 2003 **Product Name** MSDS No.: YLDE002 DR-200 Toner 9.2 Relevant safety data Method of analysis **Property** Unit\_ 9.2.1 Change of state 9.2.1.1 Melting point / area Not applicable 9.2.1.2 Boiling point / area Not applicable 9.2.2 Flash point 9.2.3 Specific gravity 1.2 9.2.4 Solubility Insoluble in water 9.2.5 pH-value 9.2.6 Viscosity 9.2.7 Solvent content 0% 9.3 Additional information 10. Stability and Reactivity 10.1 Storage conditions to avoid 10.2 Products to avoid 10.3 Dangerous decomposition products : Phenol derivatives, Carbon monoxide when heated at high temperature (>300°C) 10.4 Additional information 11. Toxicological Information : >2000mg/kg 11.1 Classification of LD50 value : non-irritant 11.2 Primary irritation : not sensitive 11.3 Sensitization : Ames test; Negative 11.4 Additional information (Salmonella typhimurium, Escherichia coli) 12. Ecological Information 12.1 Details of breakdown 12.1.1 Method of decomposition 12.1.2 Analytical method 12.1.3 Degree of decomposition 12.1.4 Text book value 12.2 Additional information date unit comment 12.2.1 COD-value 12.2.2 BOD5-value

13.1 Recommended Method of disposal : If recycling not possible, eliminate in accordance

with locally valid waste-disposal regulation.

Disposal code number

13. Disposal



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14. Transport

**Product Name** 

14.1 General comment : It is not a dangerous product according to

transport regulations

## 15. Regulatory Information

15.1 In accordance with EC regulations

15.1.1 Classification, packaging and labeling description : -

15.1.2 R-phrases : —

15.1.3 S-phrases : -

15.2 In accordance with national regulations

15.2.1 Water hazard class : 2 15.2.2 Additional information : -

#### 16. Other Information

16.1 Change of the material safety data sheet

16.1.1 Statement of reason for change : DR-300 was removed from this MSDS. Mfr.

organization was changed for I&D Company.

(No change from a technical point of view.)

16.1.2 Date of change : 7 Feb., 2003

16.2 Others

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