

Product Name

Issue Date: 07 Feb., 2003

TN-200 Toner

MSDS No.: YLTE002

1. Identification of Substance / Preparation and of the Company / Undertaking
1.1 Product details

1.1.1 Product Name(s) : TN-200 Toner

1.1.2 Product Code : Toner N1

This product is non-magnetic single component toner in a cartridge 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
: Wax : <1%
CAS No. 9010-79-1

3. Hazardous Identification

3.1 Special hazard information (R-phrases) : –

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4. First Aid Measures

4.1 General Information

: Inhalation; Remove to fresh air if effects occur.

Consult local medical personnel.

Eyes; In case of contact, immediately flush eyes 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.

6.2 Environmental protection measure

: Waste materials to be disposed of according 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

7.2.1 Storage details

: No special storage requirements for safety 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.

8.1.1 Breathing protection

: Use a NIOSH/MSHA approved dust/mist respirator

8.1.2 Hand protection

: Use suitable protective gloves.

8.1.3 Eye protection

: Use protective goggles.

8.1.4 Body protection

: Use protective suits.

9. Physical - and Chemical Properties

9.1 Appearance

9.1.1 Physical state

: Solid (Powder)

9.1.2 Color

: Black

9.1.3 Odor

: None

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9.2 Relevant safety data

Property	Unit	Method of analysis
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

11.1 Classification of LD50 value	:	>2000mg/kg
11.2 Primary irritation	:	non-irritant
11.3 Sensitization	:	not sensitive
11.4 Additional information	:	Ames test; Negative (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. Disposal

13.1 Recommended Method of disposal	:	If recycling not possible, eliminate in accordance with locally valid waste-disposal regulation.
Disposal code number	:	—

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14. Transport

- 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 : TN-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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