

EC - SAFETY DATA SHEET

(Directive - 91/155/EEC)

Issue Date: 1 June, 2005

Page: 1 of 4

TN-200/TN-300/TN-8000 Toner

MSDS No.: YL4TE003

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

1.1 Product details

Product Name

1.1.1 Product Name(s)

: TN-200 Toner, TN-300 Toner and TN-8000 Toner

1.1.2 Product Code

: Toner N3

These products are 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): +81-52-824-2735

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

: 80-85%

CAS No. 117581-13-2

: Styrene-Acrylate resin

: 5-10%

CAS No. 133350-42-2

: Carbon Black (bound) : 3-4%

CAS No. 1333-86-4

: Dyes

: 2-3%

CAS No. 8005-02-5

: Wax

: 1-2%

CAS No. 9010-79-1

3. Hazardous Identification

3.1 Special

hazard

information: -

(R-phrase)



EC - SAFETY DATA SHEET

(Directive - 91/155/EEC)

Product Name TN-200/TN-300/TN-8000 Toner Issue Date: 1 June, 2005

Page: 2 of 4

MSDS No.: YL4TE003

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



EC - SAFETY DATA SHEET

(Directive - 91/155/EEC)

Product Name TN-200/TN-300/TN-8000 Toner Issue Date: 1 June, 2005

Page: 3 of 4

MSDS No.: YL4TE003

9.2 Relevant safety data

Property <u>Unit</u> <u>Method of analysis</u>

9.2.1 Change of state

9.2.1.1 Melting point / area9.2.1.2 Boiling point / areaNot applicableNot 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 : >2500mg/kg (Data on similar product)

11.2 Primary irritation : non-irritant
11.3 Sensitization : not sensitive

11.4 Mutagenicity : Negative (AMES Test; Salmonella typhimurium,

Escherichia coli; Data on similar product)

11.5 Carcinogenicity : In 1996, the IARC reevaluated carbon black as a

Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient

animal evidence.

The latter is based upon the development of lung tumors in rat receiving chronic inhalation exposures to free carbon black at level that induce particle

overload of the lung.

Studies performed in animal models other than rats have not demonstrated an association between

carbon black and lung tumors.

Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner

exposure and tumor development in rats.



Product Name

EC - SAFETY DATA SHEET

(Directive - 91/155/EEC)

Issue Date: 1 June, 2005

Page: 4 of 4

TN-200/TN-300/TN-8000 Toner

MSDS No.: YL4TE003

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 is not possible, dispose in accordance with

local waste-disposal regulations.

Disposal code number

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

This document is based on our knowledge at the time of preparation. While Brother Industries, Ltd. believes that the data contained herein are accurate, many of the data have been derived from outside sources and we cannot assume any liability as to the accuracy of the data. are offered solely for your information.

This document covers only normal conditions of use and handling. When using product under unintended conditions, user is responsible to examine proper precautions for any particular use.

End of MSDS No.: YL4TE003