

Product Name
TN-720, TN-750, TN-780, TN-3310, TN-3320, TN-3330,
TN-3335, TN-3340, TN-3350, TN-3360, TN-3370, TN-3380,
TN-3385, TN-3390 and TN-3395 Toner

Date: Issued 27 April 2011
Revised 22 March 2012
Version Number: 2
SDS No.: PT472-01-EUUSOTHER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Product Name: TN-720, TN-750, TN-780, TN-3310, TN-3320, TN-3330, TN-3335, TN-3340, TN-3350, TN-3360, TN-3370, TN-3380, TN-3385, TN-3390 and TN-3395 Toner
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified use(s): These products are black toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers.
The cartridge should be used as supplied by Brother and for use in the products stated. Information provided on this SDS is only consistent with the use specified by Brother.
- 1.3 Details of the supplier of the safety data sheet**
Manufacturer: Brother Industries, Ltd.
15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan
Telephone (for information): +81-52-824-2735
- Importer (USA): Brother International Corporation
100 Somerset Corporate Boulevard, Bridgewater, NJ 08807-0911, USA
Telephone (for information): +1-800-284-4329
- Importer (Canada): Brother International Corporation (Canada) Ltd.
1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada
Telephone (for information): +1-514-685-0600
- Importer (Europe): Brother International Europe Ltd.
Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK
Telephone (for information): +44-161-330-6531
- Importer (Australia): Brother International (Aust.) Pty. Ltd. ACN 001 393 835
Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia
Telephone (for information): +61-2-9887-4344
- E-Mail (competent person): sds.info@brother.co.jp
- 1.4 Emergency telephone number**
Emergency Phone No. (24 hours) CHEMTREC
+1-703-527-3887 (International)
+1-800-424-9300 (North America)
For France only:
Antipoison Centre telephone number: ORFILA +33-1-45-425-959

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
EU Classification: Not classified as hazardous according to EU Directive 1999/45/EC.
Australia Classification: Not classified as hazardous according to the criteria of NOHSC.
- 2.2 Label elements**
Label elements according to EU Directive 1999/45/EC: None
- 2.3 Other hazards**
None

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Styrene-acrylate Toner (Mixture).

Chemical Name	CAS No.	EC No.	%W/W	EU Hazard Symbols	EU Risk Phrases
Styrene-acrylate Copolymer	25767-47-9	Not applicable.	80 - 85	Not classified.	Not classified.
Carbon Black	1333-86-4	215-609-9	5 - 7	Not classified.	Not classified.
Paraffin Wax	8002-74-2	232-315-6	3 - 5	Not classified.	Not classified.
Fatty Acid Ester	Confidential	Not applicable.	3 - 5	Not classified.	Not classified.
PMMA	9011-14-7	Not applicable.	1 - 3	Not classified.	Not classified.
Styrene-acrylate Resin	Confidential	Not applicable.	0.1 - 2	Not classified.	Not classified.
Silicon Dioxide (amorphous)	84491-94-7	430-570-1	≤ 2	Not classified.	Not classified.
Silicon Dioxide (amorphous)	112945-52-5	231-545-4	≤ 1	Not classified.	Not classified.

SECTION 4: FIRST AID MEASURES

- 4.1 Description of first aid measures**
- Inhalation: Obtain immediate medical attention. In case of accident by inhalation remove casualty to fresh air and keep at rest.
- Skin Contact: Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.
- Eye Contact: Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
- Ingestion: Obtain medical attention. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.
- 4.2 Most important symptoms and effects, both acute and delayed** If symptoms persist, obtain medical attention.
- 4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media**
- Suitable Extinguishing Media: Extinguish preferably with dry chemical, Carbon dioxide, Water spray, Foam.
- Unsuitable Extinguishing Media: Do not use water jet.
- 5.2 Special hazards arising from the substance or mixture** May form explosible dust clouds in air.
- 5.3 Advice for fire-fighters** Do not use high-pressure water in order to prevent creating a dust cloud and spreading fire dust. Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Avoid generation of dust. Do not breathe dust.
A suitable dust mask or dust respirator with filter type A/P may be appropriate.
- 6.2 **Environmental precautions** Prevent substance entering sewers. Washings must be prevented from entering surface water drains.
- 6.3 **Methods and material for containment and cleaning up** Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during clean-up. If a vacuum cleaner is used, the motor must be rated as dust explosion-proof.

Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter.

DISPOSAL CONSIDERATIONS - See Section: 13.
- 6.4 **Reference to other sections** See Section: 8.

SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Keep out of the reach of children. Avoid dust generation. Avoid inhalation of high concentrations of dust. Avoid contact with eyes.
- 7.2 **Conditions for safe storage, including any incompatibilities** Keep out of the reach of children. Keep away from oxidizing agents.
- 7.3 **Specific end use(s)** These products are black toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**

Occupational Exposure Limits:

Substance	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
Carbon Black	1333-86-4	3.5 mg/m ³ TWA	3 mg/m ³ TWA	None.
Paraffin Wax	8002-74-2	None.	2 mg/m ³ TWA	None.
Silicon Dioxide (amorphous)	84491-94-7	20mppcf 80 (mg/m ³)/% SiO ₂	None.	None.
Silicon Dioxide (amorphous)	112945-52-5	20mppcf 80 (mg/m ³)/% SiO ₂	None.	None.

Additional Information: USA OSHA PEL (TWA): 15 mg/m³ (Total Dust) 5mg/m³ (Respirable Fraction).
ACGIH TLV (TWA): 10 mg/m³ (Inhalable particles) 3 mg/m³ (Respirable particles).

- 8.2 **Exposure controls** Not normally required.
- Appropriate engineering controls** Good general ventilation should be sufficient under normal use.
- Personal Protection** Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:
Eye/face protection Goggles.
Skin protection Protective gloves.
Respiratory protection Dust mask. (Large spillages: Respirator).
Other: Not applicable.
- Environmental Exposure Controls** Avoid release to the environment.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (20 °C):	Solid, Powder.
Color:	Black.
Odor:	Odorless.
Boiling point/boiling range (°C):	Not applicable.
Melting point (°C) / Freezing point (°C):	No data.
Vapor pressure (Pascal):	Not applicable.
pH (Value):	Not applicable.
Viscosity (mPa. s):	Not applicable.
Flash point (°C):	Not applicable.
Explosive limit ranges:	No data.
Explosive properties:	May form explosive dust clouds in air.
Specific Gravity:	No data.
Vapor density (Air=1):	Not applicable.
Partition coefficient (n-Octanol/water):	No data.
Relative Evaporation Rate (Butyl Acetate = 1):	Not applicable.
Oxidising properties:	No data.
Solubility (Water):	Negligible.
Solubility (Other):	No data.

9.2 Other information None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	None anticipated.
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	None.
10.4 Conditions to avoid	Keep at temperature not exceeding: 200°C. Avoid friction, sparks, or other means of ignition.
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous Decomposition Product(s)	Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:
Ingestion: Acute LD₅₀ > 2000mg/kg (Method: OECD#420)
Inhalation: Acute LC₅₀ > 3.4mg/l (The highest technically achievable concentration) (Method: OECD#436)
No data.

Skin Contact: No data.
Eye Contact: No data.

Skin corrosion/irritation: Non-irritant. (Method: OECD#404)
Serious eye damage/irritation: Slight irritant to the eye. (Method: OECD#405)
Respiratory or skin sensitization: It is not a skin sensitizer. (Method: OECD#429)
Mutagenicity: Negative. (Method: OECD#471 / Ames test)
Carcinogenicity:
Carbon Black:
In 1996, the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity.

The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung.

Studies performed in animal models other than rats did not show any 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.

Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA.

Reproductive toxicity: No data.
STOT-single exposure: No data.
STOT-repeated exposure: No data.
Aspiration hazard: No data.