

Product Name: TN-110BK, TN-115BK, TN-130BK, TN-135BK, TN-150BK, TN-155BK, TN-170BK, TN-175BK, TN-190BK, TN-195BK Toner

Revision Date: 11-May-2020 Issuing Date: 10-Nov-2012 Revision Number: 3

Safety data sheet number: PT492-02

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Product Name	TN-110BK, TN-115BK, TN-130BK, TN-135BK, TN-150BK, TN-155BK, TN-170BK, TN- 175BK, TN-190BK, TN-195BK Toner	
Product Form	Mixture	
Safety data sheet number	PT492-02	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
Relevant identified uses	These products are black toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. This 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.	
Uses advised against	No information available	
1.3. Details of the supplier of the sa	fety data sheet	
<u>Manufacturer</u>	Brother Industries, Ltd. 15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan Telephone (for information): +81-52-824-2735	
Importer	Brother International Europe Ltd. Brother House, 1 Tame Street, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531	
For further information, please con	tact	
E-mail address	sds.info@brother.co.jp	
1.4. Emergency telephone number	_	
Emergency Telephone	CHEMTREC +1-703-527-3887 (International)	
	For France only: Antipoison Center telephone number: ORFILA +33-1-45-425-959	

Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label elements

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]



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2.3. Other hazards

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	EC No	EC Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Styrene-acrylate-copolymer	25767-47-9	-	-	82-85	Not classified	No data available
Fatty acid ester	**	-	-	5-7	Not classified	No data available
Carbon Black (bound)	1333-86-4	215-609-9	-	5-7	Not classified	No data available
Silicon dioxide (amorphous)	112945-52-5	231-545-4	-	1-3	Not classified	No data available
PMMA	9011-14-7	-	-	1-3	Not classified	No data available
Styrene-acrylate Resin	**	-	-	0.1-2	Not classified	No data available
Silicon dioxide (amorphous)	844491-94-7	430-570-1	-	< 1	Not classified	No data available

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Full text of H- and EUH-phrases: see section 16

Section 4: First aid measures

4.1. Description of first aid measures

General advice	If symptoms persist, call a physician.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact:	Take off contaminated clothing. Wash off immediately with soap and plenty of water.



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Ingestion	Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.	
4.2. Most important symptoms and	effects, both acute and delayed	
Symptoms	Inhalation (dust) : For large quantities: May cause irritation to the respiratory system. Increased difficulty in breathing. Sneezing. Coughing Eye contact: May cause eye irritation Ingestion: May cause stomach ache. Unlikely route of exposure	
4.3. Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

Section 5: Firefighting measures

5.1. Extinguishing media	
Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or regular foam
Unsuitable extinguishing media	Do not use water jet.
5.2. Special hazards arising from the	e substance or mixture
Specific hazards arising from the chemical	May form explosive dust clouds in air.
5.3. Advice for firefighters	
Special protective equipment 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.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent substance entering sewers. Washings must be prevented from entering surface water drains.



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6.3. Methods and material for containment and cleaning up

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Section 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Keep out of the reach of children. Avoid generation of dust. Avoid inhalation of high concentrations of dust. Avoid contact with eyes.				
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.				
7.2. Conditions for safe storage, including any incompatibilities					
Storage Conditions	Keep away from oxidizing agents.				
7.3. Specific end use(s)					
Specific use(s)	These products are black toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. This cartridge should be used as supplied by Brother and for use in the products stated.				

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	United Kingdom	France	Spain	Germany
Carbon Black (bound)	-	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³	-
1333-86-4		STEL: 7 mg/m ³			
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Carbon Black (bound)	-	TWA: 3.5 mg/m ³	-	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³
1333-86-4				STEL: 7 mg/m ³	



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Chemical name	Austria	l	Switzerland	Poland	Norway	Ireland		
Carbon Black (bound) 1333-86-4	-		-	TWA: 4.0 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³ STEL: 15 mg/m ³		
Silicon dioxide (amorphous) 112945-52-5	TWA: 4 mg/m ³		TWA: 4 mg/m ³	-	-	-		
Derived No Effect Level	ved No Effect Level (DNEL) No		No information available.					
Predicted No Effect Con (PNEC)	lo Effect Concentration No information available.							
8.2. Exposure controls	8.2. Exposure controls							
Appropriate engineering	controls (Good general ventilation should be sufficient under normal use.						
Personal protective equi		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	S	Safety goggles.						
Hand protection	F	Protective gloves.						
Skin and body protection	n l	Long sleeved clothing and long pants.						
Respiratory protection	F	Face Mask. In case of large spillages: Wear suitable respiratory protective equipment.				tive equipment.		
Environmental exposure	controls	Avoid release to the environment.						

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance		
Physical state	Solid Powder	
Color	black	
Odor	Odorless.	
Odor threshold	No information available	
Property_	<u>Values</u>	Remarks • Method
pH	Not applicable	
Melting point / freezing point	110 °C	
Boiling point / boiling range	Not applicable	
Flash point	Not applicable	
Evaporation rate	Not applicable	
Flammability (solid, gas)	Not applicable	
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	50-60 g/m ³	
Vapor pressure	Not applicable	



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Vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties

1.15 $(H_2O=1)$ Insoluble in water None known No data available No data available None known No data available None known No data available None known Not applicable Not applicable Explosive limits of toner particles No information available suspended in air approximately equal to that of coal dust No information available

Oxidizing properties

<u>9.2. Other information</u> No information available

Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat. Avoid friction, sparks, or other means of ignition

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NOx)

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information



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Inhalation	Acute $LC_{50} > 5.18$ mg/l (Method OECD#403)
Eye contact	No information available
Skin contact:	No information available
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)
The following values are calculated	I based on chapter 3.1 of the GHS document
ATEmix (oral)	8,083.30 mg/kg
Skin corrosion/irritation	Non-irritant (OECD 404 method)
Serious eye damage/eye irritation	Slight irritant to the eye (OECD 405 method)
Respiratory or skin sensitization	It is not a skin sensitizer (OECD 429 method)
Germ cell mutagenicity	AMES test : Negative (OECD 471 method)
Carcinogenicity	Carbon Black: In 1996, the IARC re-evaluated 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

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity .

Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Carbon Black (bound)	-	-	5600: 24 h Daph	
				magna mg/L EC50

12.2. Persistence and degradability

No information available.



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12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

No information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Do not put toner or toner cartridges into a fire, this can cause fire to spread with the risk of causing burn injuries. Shred toner cartridges in a dust/explosion controlled environment. Finely dispersed particles may form explosive mixtures in the air. Dispose of in accordance with Federal, State, and local regulations.

Section 14: Transport information

IMDG	

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Marine pollutant	Not applicable
14.6	Special Provisions	None
14.7	Transport in bulk according t	oNot applicable
Anne	x II of MARPOL 73/78 and the	
IBC C	Code	
<u>RID</u>		
14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None
ADR	_	

Not regulated

Not regulated

14.1 UN/ID no



SAFETY DATA SHEET

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14.3 14.4 14.5 14.6	Hazard Class Packing group Environmental hazard Special Provisions	Not regulated Not regulated Not applicable None
ΙΑΤΑ	_	
14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

* Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XVII.

- * Contains no substance listed in REACH Regulation (EC) No.1907/2006 Candidate List for Authorization.
- * Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XIV.

National Regulations

No information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization: TWA TWA (time-weighted average) STEL Trade secret

Key literature references and sources for data No information available

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Revision Note No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

STEL (Short Term Exposure Limit)



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Disclaimer

The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other process, and it is based on our best knowledge as of the date of preparation (revision).