

Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: CT413-03

Revision Number: 3

Product Name: TN-213C, TN-217C, TN-223C, TN-227C, TN-233C, TN-237C, TN-243C, TN-247C, TN-253C, TN-257C, TN-263C, TN-267C, TN-277C,

TN-283C, TN-287C, TN-293C, TN-297C

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

1.1. Product identifier

Product Name TN-213C, TN-217C, TN-223C, TN-227C, TN-233C, TN-237C, TN-243C, TN-247C,

TN-253C, TN-257C, TN-263C, TN-267C, TN-273C, TN-277C, TN-283C, TN-287C,

TN-293C, TN-297C

Product Form Mixture

Safety data sheet number CT413-03

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses These products are cyan 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.

Uses advised against No information available

1.3. Details of the supplier of the safety 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

<u>Importer</u> (Europe)

Brother International Europe Ltd.

1 Tame Street, Audenshaw, Manchester M34 5JE, UK

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands Telephone (for information): +44-161-330-6531

For further information, please contact

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

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TN-283C, TN-287C, TN-293C, TN-297C

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]

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

Styrene-acrylate-copolymer 25767-47-9 80-90 Not classified Not applicable Fatty acid ester ** - 3-10 Not classified Registered Pigment ** - 3-7 Not classified Registered Silicon dioxide (amorphous) 112945-52-5 231-545-4 - 1-3 Not classified Pre-registered PMMA 9011-14-7 - 1-3 Not classified Not applicable Silicon dioxide (amorphous) 844491-94-7 430-570-1 - <2 Not classified Pre-registered Styrene-acrylate Resin ** - 0.1-1 Not classified Not applicable	Chemical name	CAS No	EC No	EC Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Pigment ** 3-7 Not classified Registered Silicon dioxide (amorphous) 112945-52-5 231-545-4 - 1-3 Not classified Pre-registered PMMA 9011-14-7 - 1-3 Not classified Not applicable Silicon dioxide (amorphous) 844491-94-7 430-570-1 - <2 Not classified Pre-registered	Styrene-acrylate-copolymer	25767-47-9	-	-	80-90	Not classified	Not applicable
Silicon dioxide (amorphous) 112945-52-5 231-545-4 - 1-3 Not classified Registered PMMA 9011-14-7 - 1-3 Not classified Pre-registered Silicon dioxide (amorphous) 844491-94-7 430-570-1 - <2 Not classified Pre-registered	Fatty acid ester	**	-	-	3-10	Not classified	Registered
PMMA 9011-14-7 - 1-3 Not classified Not applicable Silicon dioxide (amorphous) 844491-94-7 430-570-1 - <2 Not classified Pre-registered	Pigment	**		-	3-7	Not classified	Registered
Silicon dioxide (amorphous) 844491-94-7 430-570-1 - <2 Not classified Pre-registered	Silicon dioxide (amorphous)	112945-52-5	231-545-4	-	1-3	Not classified	Pre-registered
	PMMA	9011-14-7	-	-	1-3	Not classified	Not applicable
Styrene-acrylate Resin ** - 0.1-1 Not classified Not applicable	Silicon dioxide (amorphous)	844491-94-7	430-570-1	-	<2	Not classified	Pre-registered
The state of the s	Styrene-acrylate Resin	**	-	-	0.1-1	Not classified	Not applicable

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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 Get immediate medical advice/attention. IF INHALED: Remove to fresh air and keep at rest

in a position comfortable for breathing.

Eye contact Get immediate medical advice/attention. In case of eye contact, immediately flush eyes with

plenty of water for at least 15 minutes.

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TN-283C, TN-287C, TN-293C, TN-297C

Skin contact: Take off contaminated clothing. Wash off immediately with soap and plenty of water.

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

Skin contact: : Repeated and/or prolonged skin contact may cause irritation

Ingestion: May cause stomach ache. Unlikely route of exposure

4.3. Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO₂, water spray or regular foam

Unsuitable extinguishing media Do not use water jet

5.2. Special hazards arising from the 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 Ensure adequate ventilation Avoid contact with skin and eyes

For emergency responders Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with

filter type A/P may be appropriate.

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TN-283C, TN-287C, TN-293C, TN-297C

6.2. Environmental precautions

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

Methods for containmentSweep 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 cleanup. 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.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

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 cyan 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 and personal protection

8.1. Control parameters

Exposure Limits .

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TN-283C, TN-287C, TN-293C, TN-297C

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Silicon dioxide (amorphous) 112945-52-5	TWA: 4 mg/m ³	TWA: 4 mg/m ³	-	-	-

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Appropriate engineering controls Good general ventilation should be sufficient under normal use.

Personal protective equipment 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 Safety goggles.

Protective gloves. **Hand protection**

Skin and body protection Long sleeved clothing and long pants

Respiratory protection Face Mask. In case of large spillages: Wear suitable respiratory protective 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 Powder Color cyan Odor Odorless

Odor threshold No information available

Property **Values** Remarks • Method

Not applicable None known Melting point / freezing point No information available None known Boiling point / boiling range Not applicable None known Flash point Not applicable None known. **Evaporation rate** No data available None known Flammability (solid, gas) Not applicable None known. Flammability Limit in Air None known

Upper flammability limit: No data available Lower flammability limit: No data available

Vapor pressure Not applicable None known Vapor density Not applicable None known

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TN-283C, TN-287C, TN-293C, TN-297C

Relative density No data available None known Water solubility Insoluble in water Solubility(ies) No data available None known Partition coefficient No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Not applicable Kinematic viscosity None known **Dynamic viscosity** Not applicable None known

No information available

Explosive propertiesNo information available
Explosive limits of toner particles suspended in air

approximately equal to that of coal dust

Oxidizing properties

9.2. Other informationNo 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 at a temperature not exceeding 200 °C. 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

Inhalation Acute $LC_{50} > 5.24 \text{ mg/l (4-hr) (OECD 436 method)}$

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TN-283C, TN-287C, TN-293C, TN-297C

No information available Eye contact

Skin contact: No information available

Ingestion Acute LD₅₀ > 2000 mg/kg (OECD 420 method)

Skin corrosion/irritation May cause slight irritation (OECD 404 method)

Serious eye damage/eye irritation Minimal 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 Ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA

Reproductive toxicity Not classified.

STOT - single exposure Not classified.

Not classified STOT - repeated exposure

Aspiration hazard Not classified.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated

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

12.2. Persistence and degradability

No information available.

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).

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TN-283C, TN-287C, TN-293C, TN-297C

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

<u>IMDG</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	Marine pollutant	Not applicable			
14.6	Special Provisions	None			
14.7	Transport in bulk accordi	ing toNot applicable			
Annex II of MARPOL 73/78 and the					
IBC Code					

RID

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

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

IATA

UN/ID no	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
	UN/ID no Proper shipping name Hazard Class Packing group

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TN-283C, TN-287C, TN-293C, TN-297C

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)

** Trade secret

STEL STEL (Short Term Exposure Limit)

Key literature references and sources for data

No information available

Revision Date 30-Sep-2020

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Revision Note

Importer information has been changed.

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

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).



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

1.1. Product identifier

Product Name TN-213M, TN-217M, TN-223M, TN-227M, TN-233M, TN-243M, TN-247M,

TN-253M, TN-257M, TN-263M, TN-267M, TN-273M, TN-277M, TN-283M, TN-287M,

TN-293M, TN-297M

Product Form Mixture

Safety data sheet number MT413-03

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses These products are magenta 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.

Uses advised against No information available

1.3. Details of the supplier of the safety 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

<u>Importer</u> (Europe)

Brother International Europe Ltd.

1 Tame Street, Audenshaw, Manchester M34 5JE, UK

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands Telephone (for information): +44-161-330-6531

For further information, please contact

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

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TN-283M, TN-287M, TN-293M, TN-297M

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]

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	=	-	75-85	Not classified	Not applicable
Fatty acid ester	**	-	-	5-14	Not classified	Registered
Pigment	**	-	-	3-10	Not classified	Registered
Styrene-acrylate Resin	**	=	-	1-3	Not classified	Not applicable
Silicon dioxide (amorphous)	112945-52-5	231-545-4	-	1-3	Not classified	Pre-registered
PMMA	9011-14-7	-	-	1-3	Not classified	Not applicable
Silicon dioxide (amorphous)	844491-94-7	430-570-1	-	<2	Not classified	Pre-registered

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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 Get immediate medical advice/attention. IF INHALED: Remove to fresh air and keep at rest

in a position comfortable for breathing.

Eye contact In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes.

Get immediate medical advice/attention.

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TN-283M, TN-287M, TN-293M, TN-297M

Skin contact: Take off contaminated clothing. Wash off immediately with soap and plenty of water.

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

Skin contact: : Repeated and/or prolonged skin contact may cause irritation

Ingestion: May cause stomach ache. Unlikely route of exposure

4.3. Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO₂, water spray or regular foam

Unsuitable extinguishing media Do not use water jet

5.2. Special hazards arising from the 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 Ensure adequate ventilation Avoid contact with skin and eyes

For emergency responders Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with

filter type A/P may be appropriate.

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6.2. Environmental precautions

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

Methods for containmentSweep 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 cleanup. 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.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

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 magenta 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 and personal protection

8.1. Control parameters

Exposure Limits .

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TN-283M, TN-287M, TN-293M, TN-297M

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Silicon dioxide	TWA: 4 mg/m ³	TWA: 4 mg/m ³	-	-	-
(amorphous)					
112945-52-5					

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Appropriate engineering controls Good general ventilation should be sufficient under normal use.

Personal protective equipment 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 Safety goggles.

Protective gloves. **Hand protection**

Skin and body protection Long sleeved clothing and long pants

Respiratory protection Face Mask. In case of large spillages: Wear suitable respiratory protective 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 Powder Color magenta Odor Odorless

Odor threshold No information available

Property **Values** Remarks • Method

Not applicable None known Melting point / freezing point No data available None known Boiling point / boiling range Not applicable None known Flash point Not applicable None known. **Evaporation rate** Not applicable None known Flammability (solid, gas) Not applicable None known. Flammability Limit in Air None known

Upper flammability limit: No data available Lower flammability limit: No data available

Vapor pressure Not applicable None known Vapor density Not applicable None known

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Revision Date: 30-Sep-2020 **Issuing Date:** 06-Jul-2017

Safety data sheet number: MT413-03

Revision Number: 3

Product Name: TN-213M, TN-217M, TN-223M, TN-227M, TN-233M, TN-237M, TN-243M, TN-247M, TN-253M, TN-257M, TN-263M, TN-267M, TN-273M, TN-277M, TN-283M, TN-287M, TN-293M, TN-297M

Relative density No data available None known Water solubility Insoluble in water

Solubility(ies) No data available None known Partition coefficient No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No information available None known Kinematic viscosity Not applicable None known **Dynamic viscosity** Not applicable None known

Explosive propertiesNo information available
Explosive limits of toner particles suspended in air

approximately equal to that of coal dust

Oxidizing properties No information available

9.2. Other informationNo 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 at a temperature not exceeding 200 °C. 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

Inhalation Acute $LC_{50} > 5.2 \text{ mg/l/4h}$ (OECD 436 method)

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: MT413-03

Revision Number: 3

Product Name: TN-213M, TN-217M, TN-223M, TN-227M, TN-233M, TN-237M, TN-243M, TN-247M, TN-253M, TN-257M, TN-263M, TN-267M, TN-273M, TN-277M, TN-283M, TN-287M, TN-293M, TN-297M

Eye contact No information available

Skin contact: No information available

Ingestion Acute LD₅₀ > 2000 mg/kg (OECD 420 method)

Skin corrosion/irritation Non-irritant (OECD 404 method)

Serious eye damage/eye irritation Minimal 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 Ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA

Reproductive toxicity Not classified.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified

Aspiration hazard Not classified.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated

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

12.2. Persistence and degradability

No information available.

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).

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Revision Date: 30-Sep-2020 **Issuing Date:** 06-Jul-2017

Safety data sheet number: MT413-03

Revision Number: 3

Product Name: TN-213M, TN-217M, TN-223M, TN-227M, TN-233M, TN-237M, TN-243M, TN-247M, TN-253M, TN-257M, TN-263M, TN-267M, TN-273M, TN-277M, TN-283M, TN-293M, TN-293M, TN-297M

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

<u>IMDG</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	Marine pollutant	Not applicable			
14.6	Special Provisions	None			
14.7 Transport in bulk according to Not applicable					
Annex II of MARPOL 73/78 and the					
IBC Code					

RID

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

14.1	UN/ID no	Not regulated
	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

IATA

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

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: MT413-03

Revision Number: 3

Product Name: TN-213M, TN-217M, TN-223M, TN-227M, TN-233M, TN-237M, TN-243M, TN-247M, TN-253M, TN-257M, TN-263M, TN-267M, TN-273M, TN-277M, TN-283M, TN-287M, TN-293M, TN-297M

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 STEL (Short Term Exposure Limit)

** Trade secret

Key literature references and sources for data

No information available

Revision Date 30-Sep-2020

Issuing Date 06-Jul-2017

Revision Note

Importer information has been changed.

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

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).



Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: YT413-03

Revision Number: 3

Product Name: TN-213Y, TN-217Y, TN-223Y, TN-227Y, TN-233Y, TN-233Y, TN-243Y, TN-243Y, TN-253Y, TN-253Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y,

TN-283Y, TN-287Y, TN-293Y, TN-297Y

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

1.1. Product identifier

Product Name TN-213Y, TN-217Y, TN-223Y, TN-227Y, TN-233Y, TN-237Y, TN-243Y, TN-247Y,

TN-253Y, TN-257Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y, TN-283Y, TN-287Y,

TN-293Y, TN-297Y

Product Form Mixture

Safety data sheet number YT413-03

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses These products are yellow 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.

Uses advised against No information available

1.3. Details of the supplier of the safety 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

<u>Importer</u> (Europe)

Brother International Europe Ltd.

1 Tame Street, Audenshaw, Manchester M34 5JE, UK

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands Telephone (for information): +44-161-330-6531

For further information, please contact

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

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: YT413-03

Revision Number: 3

Product Name: TN-213Y, TN-217Y, TN-223Y, TN-223Y, TN-233Y, TN-233Y, TN-243Y, TN-243Y, TN-253Y, TN-253Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y,

TN-283Y, TN-287Y, TN-293Y, TN-297Y

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]

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	-	-	75-90	Not classified	Not applicable
Pigment	**	-	-	4-10	Not classified	Registered
Fatty acid ester	**	-	-	3-10	Not classified	Registered
Silicon dioxide (amorphous)	112945-52-5	-	-	1-3	Not classified	Registration exempt
PMMA	9011-14-7	-	-	1-3	Not classified	Not applicable
Silicon dioxide (amorphous)	844491-94-7	-	-	<2	Not classified	Registered
Styrene-acrylate Resin	**	-	-	0.1-1	Not classified	Not applicable

^{**} CONFIDENTIAL

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 In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes.

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: YT413-03

Revision Number: 3

 $\begin{array}{lll} \text{Product Name:} & \text{TN-213Y, TN-217Y, TN-223Y, TN-223Y, TN-233Y, TN-233Y, TN-243Y, TN-243Y, TN-253Y, TN-253Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y, TN-277Y,$

TN-283Y, TN-287Y, TN-293Y, TN-297Y

Get immediate medical advice/attention.

Skin contact: Take off contaminated clothing. Wash off immediately with soap and plenty of water.

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

Skin contact: : Repeated and/or prolonged skin contact may cause irritation

Ingestion: May cause stomach ache. Unlikely route of exposure

4.3. Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO₂, water spray or regular foam

Unsuitable extinguishing media Do not use water jet

5.2. Special hazards arising from the 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 Ensure adequate ventilation. Avoid contact with skin and eyes.

For emergency responders Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: YT413-03

Revision Number: 3

Product Name: TN-213Y, TN-217Y, TN-223Y, TN-227Y, TN-233Y, TN-243Y, TN-243Y, TN-253Y, TN-253Y, TN-253Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y,

TN-283Y, TN-287Y, TN-293Y, TN-297Y

filter type A/P may be appropriate.

6.2. Environmental precautions

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

Methods for containment 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 cleanup. 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.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

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 .

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: YT413-03

Revision Number: 3

Product Name: TN-213Y, TN-217Y, TN-223Y, TN-223Y, TN-233Y, TN-233Y, TN-243Y, TN-243Y, TN-253Y, TN-253Y, TN-253Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y,

TN-283Y, TN-287Y, TN-293Y, TN-297Y

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Silicon dioxide	TWA: 4 mg/m ³	TWA: 4 mg/m ³	-	-	-
(amorphous)					
112945-52-5					

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

8.2. Exposure controls

Appropriate engineering controls No information available.

Personal protective equipment 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 Safety goggles.

Hand protection Protective gloves.

Skin and body protectionLong sleeved clothing and long pants.

Respiratory protection Face Mask. In case of large spillages: Wear suitable respiratory protective 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 statePowderColoryellowOdorOdorless.

Odor threshold No information available

PropertyValuesRemarks• MethodpHNo data availableNone known

Melting point / freezing point No data available None known Boiling point / boiling range No data available None known Flash point No data available None known, **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known, Flammability Limit in Air None known

Upper flammability limit:No data availableLower flammability limit:No data available

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: YT413-03

Revision Number: 3

 $\begin{array}{lll} \text{Product Name:} & \text{TN-213Y, TN-217Y, TN-223Y, TN-227Y, TN-233Y, TN-237Y, TN-243Y, TN-247Y, TN-253Y, TN-257Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y, TN-273Y, TN-273Y,$

TN-283Y, TN-287Y, TN-293Y, TN-297Y

Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
	N1 : 6 6: 11 11	

Explosive propertiesNo information available
Explosive limits of toner particles suspended in air

approximately equal to that of coal dust

Oxidizing properties No information available

9.2. Other information

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 at a temperature not exceeding 200 °C. 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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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: YT413-03

Revision Number: 3

Product Name: TN-213Y, TN-217Y, TN-223Y, TN-227Y, TN-233Y, TN-237Y, TN-243Y, TN-247Y, TN-253Y, TN-257Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y,

TN-283Y, TN-287Y, TN-293Y, TN-297Y

Inhalation Acute $LC_{50} > 5.25 \text{ mg/l/4h}$ (OECD 436 method)

Eye contact No information available

Skin contact: No information available

Ingestion Acute LD₅₀ > 2000 mg/kg (OECD 420 method)

Skin corrosion/irritation Non-irritant (OECD 404 method)

Serious eye damage/eye irritation Minimal 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 Ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA

Reproductive toxicity Not classified.

Not classified. STOT - single exposure

STOT - repeated exposure Not classified

Aspiration hazard Not classified.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated

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

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: YT413-03

Revision Number: 3

Product Name: TN-213Y, TN-217Y, TN-223Y, TN-223Y, TN-233Y, TN-233Y, TN-243Y, TN-243Y, TN-253Y, TN-253Y, TN-263Y, TN-263Y, TN-263Y, TN-273Y, TN-277Y, TN-277Y

TN-283Y, TN-287Y, TN-293Y, TN-297Y

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

<u>IMDG</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	Marine pollutant	Not applicable
14.6	Special Provisions	None
14.7	Transport in bulk according	toNot applicable
Anne	x II of MARPOL 73/78 and the	
IBC C	Code	

RID

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

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

IATA

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Safety data sheet number: YT413-03

Revision Number: 3

 $\begin{array}{lll} \mbox{Product Name:} & \mbox{TN-213Y}, \mbox{TN-217Y}, \mbox{TN-223Y}, \mbox{TN-223Y}, \mbox{TN-233Y}, \mbox{TN-233Y}, \mbox{TN-233Y}, \mbox{TN-253Y}, \mbox{TN-263Y}, \mbox{TN-263Y}, \mbox{TN-263Y}, \mbox{TN-273Y}, \mbox{TN-277Y}, \mbox{TN-277Y$

TN-283Y, TN-287Y, TN-293Y, TN-297Y

14.1UN/ID noNot regulated14.2Proper shipping nameNot regulated14.3Hazard ClassNot regulated14.4Packing groupNot regulated14.5Environmental hazardNot 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 STEL (Short Term Exposure Limit)

** Trade secret

Key literature references and sources for data

No information available

Revision Date 30-Sep-2020

Issuing Date 06-Jul-2017

Revision Note

Importer information has been changed.

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

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).

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Revision Date: 30-Sep-2020 Issuing Date: 06-Jul-2017

Revision Number: 3

Product Name: TN-213Y, TN-217Y, TN-223Y, TN-227Y, TN-233Y, TN-237Y, TN-243Y, TN-247Y, TN-253Y, TN-257Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y, TN-283Y, TN-293Y, TN-293Y, TN-297Y

Safety data sheet number: YT413-03



Revision Date: 28-May-2021 Issuing Date: 04-Apr-2016

Safety data sheet number: PT405-02

Revision Number: 4

Product Name: TN-213BK, TN-223BK, TN-233BK, TN-243BK, TN-253BK, TN-273BK, TN-283BK, TN-293BK, TN-217BK, TN-227BK, TN-237BK, TN-247BK,

TN-267BK, TN-277BK, TN-287BK toner

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

1.1. Product identifier

Product Name TN-213BK, TN-223BK, TN-233BK, TN-243BK, TN-253BK, TN-263BK, TN-273BK,

TN-283BK, TN-293BK, TN-217BK, TN-227BK, TN-237BK, TN-247BK, TN-267BK,

TN-277BK, TN-287BK toner

Product Form Mixture

Safety data sheet number PT405-02

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. 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.

Uses advised against No information available

1.3. Details of the supplier of the safety 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 (Europe)

Brother International Europe Ltd.

1 Tame Street, Audenshaw, Manchester M34 5JE, UK

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands Telephone (for information): +44-161-330-6531

For further information, please contact

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

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Revision Date: 28-May-2021 **Issuing Date:** 04-Apr-2016

Safety data sheet number: PT405-02

Revision Number: 4

Product Name: TN-213BK, TN-223BK, TN-233BK, TN-243BK, TN-253BK, TN-273BK, TN-283BK, TN-293BK, TN-217BK, TN-227BK, TN-237BK, TN-247BK,

TN-267BK, TN-277BK, TN-287BK toner

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]

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-%	Specific	Classification	REACH
					concentration	according to	Registration
					limit (SCL)	Regulation	Number
						(EC) No.	
						1272/2008	
						[CLP]	
Styrene-acrylate-copolymer	25767-47-9	607-806-7	-	65-75	-	Not classified	Not applicable
Fatty acid ester	**	-	-	8-18	-	Not classified	Registered
Carbon Black (bound)	1333-86-4	215-609-9	-	4-14	-	Not classified	01-2119384822-
,							32-XXXX
Styrene-acrylate Resin	**	-	-	<7	-	Not classified	Not applicable
PMMA	9011-14-7	618-466-4	-	1-5	-	Not classified	Not applicable
Silicon dioxide (amorphous)	112945-52-5	601-216-3	-	<3	-	Not classified	Not applicable
Silicon Dioxide (amorphous)	7631-86-9	231-545-4	-	<3	-	Not classified	01-2119379499-
` ' '							16-XXXX
Silicon dioxide (amorphous)	844491-94-7	430-570-1	-	<3	-	Not classified	Registered
Zinc stearate	557-05-1	209-151-9	-	<0.2	-	Not classified	Not applicable

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TN-267BK, TN-277BK, TN-287BK toner

.....

Section 4: First aid measures

4.1. Description of first aid measures

General advice If symptoms persist, call a physician.

Inhalation Remove to fresh air. 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: Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

Ingestion Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Get immediate medical

advice/attention.

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

Skin contact: : Repeated and/or prolonged skin contact may cause irritation

Ingestion: May cause stomach ache. Unlikely route of exposure

4.3. Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO₂, water spray or regular foam

Unsuitable extinguishing media Do not use water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

May form explosive dust clouds in air

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TN-267BK, TN-277BK, TN-287BK toner

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 Ensure adequate ventilation Avoid contact with skin and eyes 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 Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for containment 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 cleanup. 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.

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

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TN-267BK, TN-277BK, TN-287BK toner

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			
Silicon Dioxide	TWA 0.1 mg/m ³	TWA: 6 mg/m ³	-	-	TWA: 4 mg/m ³
(amorphous)	respirable fraction	TWA: 2.4 mg/m ³			
7631-86-9		TWA: 0.1 mg/m ³			
		STEL: 18 mg/m ³			
		STEL: 7.2 mg/m ³			
Zinc stearate	-	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
557-05-1		TWA: 4 mg/m ³			
		STEL: 20 mg/m ³			
		STEL: 12 mg/m ³			
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Carbon Black (bound)	-	TWA: 3 mg/m ³	-	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³
1333-86-4				STEL: 7 mg/m ³	
Silicon Dioxide	TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.75 mg/m ³	TWA: 5 mg/m ³	-
(amorphous)		TWA: 0.1 mg/m ³		TWA: 0.05 mg/m ³	
7631-86-9				TWA: 0.1 mg/m ³	
Zinc stearate	-	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³	-
557-05-1					

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TN-267BK, TN-277BK, TN-287BK toner

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Carbon Black (bound)	-	-	TWA: 4 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³
1333-86-4				STEL: 7 mg/m ³	STEL: 15 mg/m ³
Silicon dioxide	TWA: 4 mg/m ³	-	-	-	-
(amorphous)					
112945-52-5					
Silicon Dioxide	TWA: 4 mg/m ³	TWA: 4 mg/m ³	-	TWA: 1.5 mg/m ³	TWA: 6 mg/m ³
(amorphous)				STEL: 3 mg/m ³	TWA: 2.4 mg/m ³
7631-86-9					STEL: 18 mg/m ³
					STEL: 7.2 mg/m ³
Zinc stearate	-	TWA: 3 mg/m ³	-	-	TWA: 10 mg/m ³
557-05-1					TWA: 4 mg/m ³
					STEL: 12 mg/m ³
					STEL: 20 mg/m ³
					STEL: 30 mg/m ³

Derived No Effect Level (DNEL)No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation should be sufficient under normal use.

Personal protective equipment 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 Safety goggles.

Hand protection Protective gloves.

Skin and body protectionLong sleeved clothing and long pants

protective equipment.

Environmental exposure controls Avoid release to the environment.

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TN-267BK, TN-277BK, TN-287BK toner

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Powder
Color black
Odor Odorless

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH Not applicable None known pH (as aqueous solution) Not applicable

Melting point / freezing point No data available None known Boiling point / boiling range Not applicable None known Flash point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limit: No data available Lower flammability limit: No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative density1.15None known

Water solubility Insoluble in water Solubility(ies) No data available

None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity Not applicable None known Dynamic viscosity Not applicable None known

Explosive propertiesNo information available
Explosive limits of toner particles suspended in air

Oxidizing properties approximately equal to that of coal dust No information available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No information available

9.2.2. Other safety characteristics

No information available

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TN-267BK, TN-277BK, TN-287BK toner

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 oxides, Nitrogen oxides (NOx)

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation Acute $LC_{50} > 5.20 \text{ mg/l/4h}$ (OECD 436 method)

Eye contact No information available

Skin contact: No information available

Ingestion Acute LD₅₀ > 2000 mg/kg (OECD 420 method)

Skin corrosion/irritation Non-irritant (OECD 404 method)

pH: Not applicable



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TN-267BK, TN-277BK, TN-287BK toner

Serious eye damage/eye irritation Minimal irritant to the eye (OECD 405 method)

pH: Not applicable

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

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available

Aspiration hazard No information available.

Potential health effects Eve: May cause slight irritation

Skin: Prolonged exposure may cause skin irritation

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Inhalation: Not an expected route of exposure Over exposure may cause respiratory

irritation.

11.2. Information on other hazards

No information available

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	
Silicon Dioxide	EC50: =440mg/L (72h,	LC50: =5000mg/L (96h,	-	EC50: =7600mg/L (48h,
(amorphous)	Pseudokirchneriella	Brachydanio rerio)		Ceriodaphnia dubia)
	subcapitata)			

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TN-267BK, TN-277BK, TN-287BK toner

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

There is no data for this product.

Component Information

Chemical name	Partition coefficient			
Zinc stearate	1.2			

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. Endocrine disrupting properties

No information available.

12.7. 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

<u>IMDG</u>

14.1UN/ID noNot regulated14.2Proper shipping nameNot regulated14.3Hazard ClassNot regulated14.4Packing groupNot regulated14.5Marine pollutantNot applicable14.6Special ProvisionsNone

14.7 Transport in bulk according to Not applicable

Annex II of MARPOL 73/78 and the

IBC Code

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14.3 14.4	UN/ID no Proper shipping name Hazard Class Packing group Environmental hazard Special Provisions	Not regulated Not regulated Not regulated Not regulated Not applicable None
<u>ADR</u>	_	
14.1	UN/ID no	Not regulated

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

IATA

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

National Regulations

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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TN-267BK, TN-277BK, TN-287BK toner

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 STEL (Short Term Exposure Limit)

** Trade secret

Key literature references and sources for data

No information available

Revision Date 28-May-2021

Issuing Date 04-Apr-2016

Revision Note

SDS sections updated: 1,3

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

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).

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