

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M,
TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

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

1.1. Product identifier

Product Name TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M, TN-426M, TN-431M,
TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M, TN-449M, TN-451M,
TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M, TN-476M, TN-491M,
TN-493M, TN-499M, TN-910M Toner

Product Form Mixture

Safety data sheet number MT413-02

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

Manufacturer 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

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M,
TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

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 concentration limit (SCL)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Styrene-acrylate-copolymer	25767-47-9	607-806-7	-	75-85	-	Not classified	Not applicable
Fatty acid ester	**	-	-	5-14	-	Not classified	Registered
Pigment	**	-	-	3-10	-	Not classified	Not applicable
Styrene-acrylate Resin	**	-	-	1-3	-	Not classified	Not applicable
Silicon dioxide (amorphous)	112945-52-5	601-216-3	-	1-3	-	Not classified	Registered
PMMA	9011-14-7	618-466-4	-	1-3	-	Not classified	Not applicable
Silicon dioxide (amorphous)	844491-94-7	430-570-1	-	<2	-	Not classified	Registered

** CONFIDENTIAL

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

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M,
TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

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.
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	Clean mouth with water and drink afterwards plenty of water.

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 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 substance or mixture

Specific hazards arising from the chemical	May form explosive dust clouds in air
---	---------------------------------------

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M,
TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

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

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

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

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.

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M, TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M, TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M, TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

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 container tightly closed in a dry and well-ventilated place.

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

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Silicon dioxide (amorphous) 112945-52-5	TWA: 4 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 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.

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M, TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M, TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M, TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

Hand protection	Protective gloves.
Skin and body protection	If there is a risk of contact:, Apron, Boots
Respiratory protection	Use appropriate respiratory protection.
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

<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	Not applicable	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 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	Not applicable	None known
Dynamic viscosity	Not applicable	None known
Explosive properties	No 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

9.2.1. Information with regard to physical hazard classes

No information available

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M,
TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

9.2.2. Other safety characteristics

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 (NO_x)

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation	Acute LC ₅₀ > 5.20 mg/l/4h (OECD 436 method)
Eye contact	No information available
Skin contact:	No information available
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M,
TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

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	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available
Aspiration hazard	No information available.
Potential health effects	Eye : 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 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.

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M,
TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

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

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 to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

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

Revision Date: 28-May-2021

Issuing Date: 12-Sep-2013

Revision Number: 4.1

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M,
TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

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 (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 28-May-2021

Issuing Date 12-Sep-2013

Revision Note

SDS sections updated : 1

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

Revision Date: 28-May-2021

Issuing Date: 12-Sep-2013

Revision Number: 4.1

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
TN-449M, TN-451M, TN-456M, TN-459M, TN-461M, TN-466M, TN-469M, TN-471M,
TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

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).

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

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

1.1. Product identifier

Product Name TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Product Form Mixture

Safety data sheet number PT405-01

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

Manufacturer 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

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

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 concentration limit (SCL)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
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	Registered
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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Full text of H- and EUH-phrases: see section 16

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

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 immediately and drink plenty 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 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 substance or mixture

Specific hazards arising from the chemical	May form explosive dust clouds in air
---	---------------------------------------

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

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

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

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.

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

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

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Carbon Black (bound) 1333-86-4	-	-	TWA: 4 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	-	-	-	-
Silicon Dioxide (amorphous) 7631-86-9	TWA: 4 mg/m ³	TWA: 4 mg/m ³	-	TWA: 1.5 mg/m ³ STEL: 3 mg/m ³	TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³
Zinc stearate 557-05-1	-	TWA: 3 mg/m ³	-	-	TWA: 10 mg/m ³ 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 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 protection If there is a risk of contact:, Apron, Boots

Respiratory protection Use appropriate respiratory protection.

Environmental exposure controls Avoid release to the environment.

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

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

Values

Remarks • Method

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 pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No information 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	Not applicable	None known
Dynamic viscosity	Not applicable	None known
Explosive properties	No 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

9.2.1. Information with regard to physical hazard classes

No information available

9.2.2. Other safety characteristics

No information available

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

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 (NO_x)

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation	Acute LC ₅₀ > 5.20 mg/l/4h (OECD 436 method)
Eye contact	No information available
Skin contact:	No information available
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

Skin corrosion/irritation	Non-irritant (OECD 404 method) pH: Not applicable
Serious eye damage/eye irritation	Minimal irritant to the eye (OECD 405 method) pH: Not applicable
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
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	Eye : 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

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

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

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.

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Safety data sheet number: PT405-01

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 to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

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

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

Product Name: TN-411BK, TN-413BK, TN-416BK, TN-419BK, TN-421BK, TN-423BK, TN-426BK, TN-431BK, TN-433BK, TN-436BK, TN-439BK, TN-441BK, TN-443BK, TN-446BK, TN-449BK, TN-451BK, TN-456BK, TN-459BK, TN-461BK, TN-466BK, TN-469BK, TN-471BK, TN-476BK, TN-491BK, TN-493BK, TN-499BK, TN-910BK Toner

Revision Date: 28-May-2021

Issuing Date: 04-Apr-2016

Revision Number: 2

Safety data sheet number: PT405-01

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

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 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).

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y,
TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y,
TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y,
TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

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

1.1. Product identifier

Product Name TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y, TN-426Y, TN-431Y,
TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y, TN-449Y, TN-451Y,
TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y, TN-476Y, TN-491Y,
TN-493Y, TN-499Y, TN-910Y Toner

Product Form Mixture

Safety data sheet number YT413-02

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

Manufacturer 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

Revision Date: 28-May-2021

Issuing Date: 12-Sep-2013

Revision Number: 4.1

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y,
TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y,
TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y,
TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

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 concentration limit (SCL)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Styrene-acrylate-copolymer	25767-47-9	607-806-7	-	75-90	-	Not classified	Not applicable
Pigment	**	-	-	4-10	-	Not classified	Not applicable
Fatty acid ester	**	-	-	3-10	-	Not classified	Registered
Silicon dioxide (amorphous)	112945-52-5	601-216-3	-	1-3	-	Not classified	Registered
PMMA	9011-14-7	618-466-4	-	1-3	-	Not classified	Not applicable
Silicon dioxide (amorphous)	844491-94-7	430-570-1	-	<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

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y,
TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y,
TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y,
TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

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.
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	Clean mouth with water and drink afterwards plenty of water.

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

Note to physicians	Treat symptomatically.
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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 substance or mixture

Specific hazards arising from the chemical	May form explosive dust clouds in air
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Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y, TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y, TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y, TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

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

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

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

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.

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y, TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y, TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y, TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

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 container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Specific use(s) 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.

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Silicon dioxide (amorphous) 112945-52-5	TWA: 4 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 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.

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y, TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y, TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y, TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

Hand protection	Protective gloves.
Skin and body protection	If there is a risk of contact:, Apron, Boots
Respiratory protection	Use appropriate respiratory protection.
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	yellow
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 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
Explosive properties	No 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

9.2.1. Information with regard to physical hazard classes

No information available

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y,
TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y,
TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y,
TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

9.2.2. Other safety characteristics

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 (NO_x)

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation	Acute LC ₅₀ > 5.25 mg/l/4h (OECD 436 method)
Eye contact	No information available
Skin contact:	No information available
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y,
TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y,
TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y,
TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

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	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available
Aspiration hazard	No information available.
Potential health effects	Eye : 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 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.

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y,
TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y,
TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y,
TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

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

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 to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

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

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y,
TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y,
TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y,
TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

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 (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: 28-May-2021

Issuing Date: 12-Sep-2013

Revision Number: 4.1

Product Name: TN-411Y, TN-413Y, TN-416Y, TN-419Y, TN-421Y, TN-423Y,
TN-426Y, TN-431Y, TN-433Y, TN-436Y, TN-439Y, TN-441Y, TN-443Y, TN-446Y,
TN-449Y, TN-451Y, TN-456Y, TN-459Y, TN-461Y, TN-466Y, TN-469Y, TN-471Y,
TN-476Y, TN-491Y, TN-493Y, TN-499Y, TN-910Y Toner

Safety data sheet number: YT413-02

Revision Date 28-May-2021

Issuing Date 12-Sep-2013

Revision Note

SDS sections updated : 1

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).

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C,
TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C,
TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C,
TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

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

1.1. Product identifier

Product Name TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C, TN-426C, TN-431C,
TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C, TN-449C, TN-451C,
TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C, TN-476C, TN-491C,
TN-493C, TN-499C, TN-910C Toner

Product Form Mixture

Safety data sheet number CT413-02

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

Manufacturer 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

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C,
TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C,
TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C,
TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

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 concentration limit (SCL)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Styrene-acrylate-copolymer	25767-47-9	607-806-7	-	80-90	-	Not classified	Not applicable
Fatty acid ester	**	-	-	3-10	-	Not classified	Registered
Pigment	**	-	-	3-7	-	Not classified	Not applicable
Silicon dioxide (amorphous)	112945-52-5	601-216-3	-	1-3	-	Not classified	Registered
PMMA	9011-14-7	618-466-4	-	1-3	-	Not classified	Not applicable
Silicon dioxide (amorphous)	844491-94-7	430-570-1	-	<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

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C,
TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C,
TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C,
TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

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.
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	Clean mouth with water and drink afterwards plenty of water.

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

Note to physicians	Treat symptomatically.
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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 substance or mixture

Specific hazards arising from the chemical	May form explosive dust clouds in air
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Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C,
TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C,
TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C,
TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

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 entry into waterways, sewers, basements or confined areas.

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.

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C, TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C, TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C, TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

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 container tightly closed in a dry and well-ventilated place.

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

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Silicon dioxide (amorphous) 112945-52-5	TWA: 4 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 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.

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C, TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C, TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C, TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

Hand protection	Protective gloves.
Skin and body protection	If there is a risk of contact:, Apron, Boots
Respiratory protection	Use appropriate respiratory protection.
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	blue
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 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	Not applicable	None known
Dynamic viscosity	Not applicable	None known
Explosive properties	No 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

9.2.1. Information with regard to physical hazard classes

No information available

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C,
TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C,
TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C,
TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Revision Date: 28-May-2021

Issuing Date: 12-Sep-2013

Revision Number: 4.1

Safety data sheet number: CT413-02

9.2.2. Other safety characteristics

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 oxides, Nitrogen oxides (NO_x)

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation	Acute LC ₅₀ > 5.24 mg/l (4-hr) (OECD 436 method)
Eye contact	No information available
Skin contact:	No information available
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C,
TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C,
TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C,
TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

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	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available
Aspiration hazard	No information available.
Potential health effects	Eye : 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 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.

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C,
TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C,
TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C,
TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

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

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 to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

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

Revision Date: 28-May-2021

Issuing Date: 12-Sep-2013

Revision Number: 4.1

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C,
TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C,
TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C,
TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

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 (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.

Revision Date: 28-May-2021

Issuing Date: 12-Sep-2013

Revision Number: 4.1

Product Name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C,
TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C,
TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C,
TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Safety data sheet number: CT413-02

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 12-Sep-2013

Revision Note

Importer information has been changed. SDS sections updated : 1

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).