

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

Revision Date: 28-May-2021

Issuing Date: 04-Apr-2016

Revision Number: 4

Safety data sheet number: PT405-02

## **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**

**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-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

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## 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	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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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

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## **Section 4: First aid measures**

### **4.1. Description of first aid measures**

<b>General advice</b>	If symptoms persist, call a physician.
<b>Inhalation</b>	Remove to fresh air. Get immediate medical advice/attention.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact:</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	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**

<b>Symptoms</b>	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**

<b>Note to physicians</b>	Treat symptomatically.
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## **Section 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam
<b>Unsuitable extinguishing media</b>	Do not use water jet

### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	May form explosive dust clouds in air
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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

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

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

**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 protection** Long sleeved clothing and long pants

**Respiratory protection** Use appropriate respiratory protection. In case of large spillages: Wear suitable respiratory protective equipment.

**Environmental exposure controls** Avoid release to the environment.

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**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	
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 pressure	No data available	None known
Vapor density	No data available	None known
Relative density	1.15	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-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

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## 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

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

**Skin corrosion/irritation**                      Non-irritant (OECD 404 method)  
pH: Not applicable



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

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**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

**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)

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

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**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**

**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

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

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**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

**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.

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

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## 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-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

Safety data sheet number: YT413-03

## **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**

**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

## **Section 2: Hazard(s) identification**

### **2.1. Classification of the substance or mixture**

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

Safety data sheet number: YT413-03

**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

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

**Section 4: First aid measures**

**4.1. Description of first aid measures**

**General advice** If symptoms persist, call a physician.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.

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

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

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**Skin contact:** Get immediate medical advice/attention.  
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 physicians** Treat symptomatically.

**Section 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, 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

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

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**6.2. Environmental precautions** filter type A/P may be appropriate.

**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** .



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

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

**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** 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** yellow  
**Odor** Odorless.  
**Odor threshold** No information available

**Property**

**pH** No data available  
**Melting point / freezing point** No data available  
**Boiling point / boiling range** No data available  
**Flash point** No data available  
**Evaporation rate** No data available  
**Flammability (solid, gas)** No data available  
**Flammability Limit in Air**  
**Upper flammability limit:** No data available  
**Lower flammability limit:** No data available

**Remarks • Method**

None known  
None known  
None known  
None known,  
None known  
None known,  
None known

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

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<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Water solubility</b>	Insoluble in water	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	No information available	Explosive limits of toner particles suspended in air approximately equal to that of coal dust
<b>Oxidizing properties</b>	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 (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Product Information**

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

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<b>Inhalation</b>	Acute LC <sub>50</sub> > 5.25 mg/l/4h (OECD 436 method)
<b>Eye contact</b>	No information available
<b>Skin contact:</b>	No information available
<b>Ingestion</b>	Acute LD <sub>50</sub> > 2000 mg/kg (OECD 420 method)
<b>Skin corrosion/irritation</b>	Non-irritant (OECD 404 method)
<b>Serious eye damage/eye irritation</b>	Minimal irritant to the eye (OECD 405 method)
<b>Respiratory or skin sensitization</b>	It is not a skin sensitizer (OECD 429 method)
<b>Germ cell mutagenicity</b>	AMES test : Negative (OECD 471 method)
<b>Carcinogenicity</b>	Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA
<b>Reproductive toxicity</b>	Not classified.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	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**

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

Safety data sheet number: YT413-03

No information available.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

No information available.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

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

**Section 14: Transport information**

**IMDG**

14.1 UN/ID no	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according 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**

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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

Safety data sheet number: YT413-03

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 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).



# SAFETY DATA SHEET

**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-287Y, TN-293Y, TN-297Y

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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

Safety data sheet number: CT413-03

## 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

**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

## Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

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

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**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	-	-	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

\*\* 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**

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.



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

Safety data sheet number: CT413-03

**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 physicians** Treat symptomatically.

**Section 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, 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.

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

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Revision Number: 3

Safety data sheet number: CT413-03

## **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 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** .

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

Safety data sheet number: CT413-03

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

**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 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

<u>Property</u>	<u>Values</u>
pH	Not applicable
Melting point / freezing point	No information available
Boiling point / boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Flammability Limit in Air	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor pressure	Not applicable
Vapor density	Not applicable

#### Remarks • Method

None known
None known
None known
None known,
None known
None known,
None known
None known
None known
None known

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

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<b>Relative density</b>	No data available	None known
<b>Water solubility</b>	Insoluble in water	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	Not applicable	None known
<b>Dynamic viscosity</b>	Not applicable	None known
<b>Explosive properties</b>	No information available	Explosive limits of toner particles suspended in air approximately equal to that of coal dust
<b>Oxidizing properties</b>	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 (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Product Information**

**Inhalation** Acute LC<sub>50</sub> > 5.24 mg/l (4-hr) (OECD 436 method)

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

Safety data sheet number: CT413-03

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<b>Eye contact</b>	No information available
<b>Skin contact:</b>	No information available
<b>Ingestion</b>	Acute LD <sub>50</sub> > 2000 mg/kg (OECD 420 method)
<b>Skin corrosion/irritation</b>	May cause slight irritation (OECD 404 method)
<b>Serious eye damage/eye irritation</b>	Minimal irritant to the eye (OECD 405 method)
<b>Respiratory or skin sensitization</b>	It is not a skin sensitizer (OECD 429 method)
<b>Germ cell mutagenicity</b>	AMES test : Negative (OECD 471 method)
<b>Carcinogenicity</b>	Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA
<b>Reproductive toxicity</b>	Not classified.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	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).

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

Safety data sheet number: CT413-03

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

**12.6. Other adverse effects**

No information available.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

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

**Section 14: Transport information**

**IMDG**

14.1 UN/ID no	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according 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

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

Revision Date: 30-Sep-2020

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Revision Number: 3

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**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** 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).**

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

Safety data sheet number: MT413-03

## 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-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

**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

**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

## Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture



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

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**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

\*\* 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**

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.

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

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**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 physicians** Treat symptomatically.

**Section 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, 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.

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

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**Issuing Date:** 06-Jul-2017

**Revision Number:** 3

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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 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 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** .

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

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

**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 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

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	Not applicable	None known
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	Not applicable	None known
<b>Flash point</b>	Not applicable	None known,
<b>Evaporation rate</b>	Not applicable	None known
<b>Flammability (solid, gas)</b>	Not applicable	None known,
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	
<b>Vapor pressure</b>	Not applicable	None known
<b>Vapor density</b>	Not applicable	None known

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

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<b>Relative density</b>	No data available	None known
<b>Water solubility</b>	Insoluble in water	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No information available	None known
<b>Kinematic viscosity</b>	Not applicable	None known
<b>Dynamic viscosity</b>	Not applicable	None known
<b>Explosive properties</b>	No information available	Explosive limits of toner particles suspended in air approximately equal to that of coal dust
<b>Oxidizing properties</b>	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 (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Product Information**

**Inhalation**

Acute LC<sub>50</sub> > 5.2 mg/l/4h (OECD 436 method)

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

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<b>Eye contact</b>	No information available
<b>Skin contact:</b>	No information available
<b>Ingestion</b>	Acute LD <sub>50</sub> > 2000 mg/kg (OECD 420 method)
<b>Skin corrosion/irritation</b>	Non-irritant (OECD 404 method)
<b>Serious eye damage/eye irritation</b>	Minimal irritant to the eye (OECD 405 method)
<b>Respiratory or skin sensitization</b>	It is not a skin sensitizer (OECD 429 method)
<b>Germ cell mutagenicity</b>	AMES test : Negative (OECD 471 method)
<b>Carcinogenicity</b>	Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA
<b>Reproductive toxicity</b>	Not classified.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	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).

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

Safety data sheet number: MT413-03

**12.6. Other adverse effects**

No information available.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

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

**Section 14: Transport information**

**IMDG**

14.1 UN/ID no	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according 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-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

Revision Date: 30-Sep-2020

Issuing Date: 06-Jul-2017

Revision Number: 3

Safety data sheet number: MT413-03

## 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).