

Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Safety data sheet number: MT404-01

Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M,

TN-261M, TN-265M, TN-281M, TN-285M Toner

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

1.1. Product identifier

Product Name TN-221M, TN-225M, TN-241M, TN-245M, TN-255M, TN-261M, TN-265M,

TN-281M, TN-285M Toner

Product Form Mixture

Safety data sheet number MT404-01

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

Relevant identified uses These products are magenta toner in a cartridge for Brother Industries, Ltd. laser printers,

multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated. Information provided on this SDS is only

consistent with the use specified by Brother.

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

<u>Manufacturer</u> Brother Industries, Ltd.

15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan

Telephone (for information): +81-52-824-2735

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

Regulation (EC) No 1272/2008

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

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Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M,

TN-261M, TN-265M, TN-281M, TN-285M Toner

2.2. Label elements

Regulation (EC) No 1272/2008

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

<u>2.3. Other hazards</u>
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	607-806-7	-	80-85	Not classified	Not applicable
Pigment	**	1	-	4-7	Not classified	Registered
Paraffin wax	8002-74-2	232-315-6	-	2-4	Not classified	Registered
Fatty acid ester	**	-	-	2.5-4	Not classified	Not applicable
Silicon dioxide (amorphous)	112945-52-5	601-216-3	-	0.5-3	Not classified	Registration exempt
PMMA	9011-14-7	618-466-4	-	1-3	Not classified	Not applicable
Silicon Dioxide (amorphous)	7631-86-9	231-545-4	-	0.5-1.5	Not classified	Registration exempt
Styrene-acrylate Resin	**	-	-	0.1-2	Not classified	Registered

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

Section 4: First aid measures

4.1. Description of first aid measures

General advice If symptoms persist, call a physician.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get immediate medical advice/attention.

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

plenty of water for at least 15 minutes.

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Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M, TN-261M, TN-265M, TN-281M, TN-285M Toner

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

Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of

water to drink.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Inhalation (dust): For large quantities: May cause irritation to the respiratory system.

Increased difficulty in breathing. Sneezing. Coughing

Eye contact: May cause eye irritation

Ingestion: May cause stomach ache. Unlikely route of exposure

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

Note to physicians Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Ingestion

May form explosive dust clouds in air

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Do not use high-pressure water in order to prevent creating a dust cloud and spreading fire dust. Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

filter type A/P may be appropriate

For emergency responders Use personal protection recommended in Section 8.

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Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M, TN-255M

TN-261M, TN-265M, TN-281M, TN-285M Toner

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 upTake up mechanically, placing in appropriate containers for disposal

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

6.4. Reference to other sections

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

Section 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Keep out of the reach of children. Avoid generation of dust. Avoid inhalation of high

concentrations of dust. Avoid contact with eyes.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from oxidizing agents.

7.3. Specific end use(s)

Specific use(s)These products are magenta toner in a cartridge for Brother Industries, Ltd. laser printers,

multifunction devices and fax receivers. The cartridge should be used as supplied by

Brother and for use in the products stated.

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits .

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Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M,

TN-261M, TN-265M, TN-281M, TN-285M Toner

Chemical name	European Union	United Kingdom	France	Spain	Germany
Paraffin wax	-	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	-
8002-74-2		STEL: 6 mg/m ³			
Silicon Dioxide	-	TWA: 6 mg/m ³	-	-	TWA: 4 mg/m ³
(amorphous)		TWA: 2.4 mg/m ³			
7631-86-9		STEL: 18 mg/m ³			
		STEL: 7.2 mg/m ³			
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Paraffin wax	-	TWA: 2 mg/m ³	-	TWA: 1 mg/m ³	TWA: 2 mg/m ³
8002-74-2					
Silicon Dioxide	-	-	-	TWA: 5 mg/m ³	-
(amorphous)					
7631-86-9					
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Paraffin wax	-	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³
8002-74-2				STEL: 4 mg/m ³	STEL: 6 mg/m ³
Silicon dioxide	TWA: 4 mg/m ³	TWA: 4 mg/m ³	-	-	-
(amorphous)					
112945-52-5					
Silicon Dioxide	TWA: 4 mg/m ³	TWA: 4 mg/m ³	-	TWA: 1.5 mg/m ³	TWA: 6 mg/m ³
(amorphous)				STEL: 1.5 mg/m ³	TWA: 2.4 mg/m ³
7631-86-9					STEL: 18 mg/m ³
					STEL: 7.2 mg/m ³

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

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

Personal protective equipment Not normally required. For use other than in normal operating procedures (such as in the

event of large spill), the following should be applied:

Eye/face protection Safety goggles.

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

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Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M,

TN-261M, TN-265M, TN-281M, TN-285M Toner

Appearance

Physical state Solid Powder Color magenta
Odor Odorless

Odor threshold No information available

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

pH No data available
Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
No data available
No data available
No data available
Not applicable
Not applicable

Flammability Limit in Air None known

Upper flammability limit:

Lower flammability limit:

Vapor pressure

Vapor density

Relative density

No data available

Not applicable

Not applicable

No data available

Relative density No data available (H₂O=1)

Water solubilityInsoluble in waterSolubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone known

Kinematic viscosity

Dynamic viscosity

Not applicable

No data available

Explosive propertiesNo information available

Explosive limits of toner particles suspended in air

approximately equal to that of coal dust

Oxidizing properties No information available

9.2. Other informationNo information available

Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep at a temperature not exceeding 200 °C. Keep away from heat. Avoid friction, sparks, or other means of ignition.

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Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M, TN-261M, TN-265M, TN-281M, TN-285M Toner

TIN-20 TIVI, TIN-203IVI, TIN-20 TIVI, TIN-203IVI TOTIEI

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation Acute $LC_{50} > 5.09 \text{ mg/l}$ (OECD 436 method)

Eye contact No information available

Skin contact: No information available

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

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 3,417.20 mg/kg

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

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity

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

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Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M,

TN-261M, TN-265M, TN-281M, TN-285M Toner

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Silicon Dioxide	440: 72 h	5000: 96 h Brachydanio	-	7600: 48 h Ceriodaphnia
(amorphous)	Pseudokirchneriella	rerio mg/L LC50 static		dubia mg/L EC50
	subcapitata mg/L EC50			

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).

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 Not applicable

Annex II of MARPOL 73/78 and the

IBC Code

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Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M, TN-261M, TN-265M, TN-281M, TN-285M Toner

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
116	Special Provisions	Nono

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 (time-weighted average) **STEL** STEL (Short Term Exposure Limit) **TWA**

Trade secret

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Product Name: TN-221M, TN-225M, TN-241M, TN-245M, TN-251M, TN-255M,

TN-261M, TN-265M, TN-281M, TN-285M Toner

Key literature references and sources for data

No information available

Revision Date 30-Sep-2020

Issuing Date 02-Apr-2012

Revision Note

Importer information has been changed.

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

Disclaimer

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



Revision Date: 30-Sep-2020 **Issuing Date:** 10-Nov-2012

Revision Number: 4

Safety data sheet number: YT403-02

Product Name: TN-221Y, TN-225Y, TN-241Y, TN-245Y, TN-251Y, TN-255Y,

TN-261Y, TN265Y, TN-281Y, TN-285Y Toner

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

1.1. Product identifier

Product Name TN-221Y, TN-225Y, TN-241Y, TN-245Y, TN-255Y, TN-255Y, TN-261Y, TN-281Y,

TN-285Y Toner

Product Form Mixture

Safety data sheet number YT403-02

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

<u>Manufacturer</u> Brother Industries, Ltd.

15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan

Telephone (for information): +81-52-824-2735

Importer (Europe)

Brother International Europe Ltd.

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

Brother International (Nederland) B.V.

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

For further information, please contact

E-mail address sds.info@brother.co.jp

1.4. Emergency telephone number

Emergency Telephone CHEMTREC +1-703-527-3887 (International)

For France only:

Antipoison Center telephone number: ORFILA +33-1-45-425-959

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]

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Safety data sheet number: YT403-02

Product Name: TN-221Y, TN-225Y, TN-241Y, TN-245Y, TN-251Y, TN-255Y,

TN-261Y, TN265Y, TN-281Y, TN-285Y Toner

2.2. Label elements

Regulation (EC) No 1272/2008

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

<u>2.3. Other hazards</u>
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	607-806-7	-	82-85	Not classified	Not applicable
Pigment	**	•	-	6-7	Not classified	Registered
Paraffin wax	8002-74-2	232-315-6	-	2-3	Not classified	Registered
Fatty acid ester	**	-	-	2-3	Not classified	Not applicable
PMMA	9011-14-7	618-466-4	-	1.5-2.5	Not classified	Not applicable
Silicon dioxide (amorphous)	112945-52-5	601-216-3	-	1-2	Not classified	Registration exempt
Silicon dioxide (amorphous)	844491-94-7	430-570-1	-	0.5-1.5	Not classified	Registered
Styrene-acrylate Resin	**	-	-	0.1-1	Not classified	Registered

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

Section 4: First aid measures

4.1. Description of first aid measures

General advice If symptoms persist, call a physician.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get immediate medical advice/attention.

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

plenty of water for at least 15 minutes.

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Safety data sheet number: YT403-02

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

Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Inhalation (dust): For large quantities: May cause irritation to the respiratory system.

Increased difficulty in breathing. Sneezing. Coughing

Eye contact: May cause eye irritation

Ingestion: May cause stomach ache. Unlikely route of exposure

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

Note to physicians Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Ingestion

May form explosive dust clouds in air

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Do not use high-pressure water in order to prevent creating a dust cloud and spreading fire dust. Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

filter type A/P may be appropriate

For emergency responders Use personal protection recommended in Section 8.

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Safety data sheet number: YT403-02

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

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

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 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



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Product Name: TN-221Y, TN-225Y, TN-241Y, TN-245Y, TN-251Y, TN-255Y,

TN-261Y, TN265Y, TN-281Y, TN-285Y Toner

Chemical name	European Union	United Kingdom	France	Spain	Germany
Paraffin wax 8002-74-2	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Paraffin wax 8002-74-2	-	TWA: 2 mg/m ³	-	TWA: 1 mg/m ³	TWA: 2 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Paraffin wax 8002-74-2	-	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³ STEL: 4 mg/m ³	TWA: 2 mg/m ³ STEL: 6 mg/m ³
Silicon dioxide (amorphous) 112945-52-5	TWA: 4 mg/m ³	TWA: 4 mg/m ³	-	-	-

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

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

Personal protective equipment Not normally required. For use other than in normal operating procedures (such as in the

event of large spill), the following should be applied:

Eye/face protection Safety goggles.

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

Solid Powder Physical state Color vellow Odor Odorless

Odor threshold No information available

Property Values_ Remarks • Method

No data available

Melting point / freezing point 110 °C

Boiling point / boiling range No data available

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Revision Date: 30-Sep-2020 Issuing Date: 10-Nov-2012 Revision Number: 4

Safety data sheet number: YT403-02

Product Name: TN-221Y, TN-225Y, TN-241Y, TN-245Y, TN-251Y, TN-255Y, TN-261Y, TN265Y, TN-281Y, TN-285Y Toner

Flash point Not applicable **Evaporation rate** Not applicable Flammability (solid, gas) Not applicable

Flammability Limit in Air

Upper flammability limit: No data available Lower flammability limit: 95 - 100 a/m3 Vapor pressure Not applicable Vapor density Not applicable

Relative density 1.15

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 No data available **Dynamic viscosity**

No information available **Explosive properties** Explosive limits of toner particles suspended in air

approximately equal to that of coal dust

None known

 $(H_2O=1)$

No information available **Oxidizing properties**

9.2. Other information No information available

Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep at a temperature not exceeding 200 °C. Keep away from heat. Avoid friction, sparks, or other means of ignition.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

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



Revision Date: 30-Sep-2020 Issuing Date: 10-Nov-2012

Revision Number: 4

Safety data sheet number: YT403-02

Product Name: TN-221Y, TN-225Y, TN-241Y, TN-245Y, TN-251Y, TN-255Y, TN-261Y, TN-265Y, TN-281Y, TN-285Y Toner

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation Acute $LC_{50} > 5.22 \text{ mg/l/4h}$ (OECD 436 method)

Eye contact No information available

Skin contact: No information available

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

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4,619.30 mg/kg **ATEmix (dermal)** 4,324.30 mg/kg

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

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

Respiratory or skin sensitization It is not a skin sensitizer (OECD 429 method)

Germ cell mutagenicity AMES test: Negative (OECD 471 method)

Carcinogenicity Ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity 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.



Revision Date: 30-Sep-2020 Issuing Date: 10-Nov-2012

Revision Number: 4

Safety data sheet number: YT403-02

Product Name: TN-221Y, TN-225Y, TN-241Y, TN-245Y, TN-251Y, TN-255Y,

TN-261Y, TN265Y, TN-281Y, TN-285Y Toner

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	toNot applicable

Annex II of MARPOL 73/78 and the

IBC Code

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

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

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Revision Date: 30-Sep-2020 Issuing Date: 10-Nov-2012

Revision Number: 4

Safety data sheet number: YT403-02

Product Name: TN-221Y, TN-225Y, TN-241Y, TN-245Y, TN-251Y, TN-255Y,

TN-261Y, TN265Y, TN-281Y, TN-285Y Toner

14.2 Proper shipping name
14.3 Hazard Class
14.4 Packing group
14.5 Environmental hazard
Not regulated
Not regulated
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 10-Nov-2012

Revision Note

Importer information has been changed.

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

Disclaimer

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



Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Safety data sheet number: CT404-01

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C,

TN-261C, TN-265C, TN-281C, TN-285C Toner

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

1.1. Product identifier

Product Name TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C, TN-261C, TN-265C,

TN-281C, TN-285C Toner

Product Form Mixture

Safety data sheet number CT404-01

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

Regulation (EC) No 1272/2008

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

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Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Safety data sheet number: CT404-01

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C,

TN-261C, TN-265C, TN-281C, TN-285C Toner

2.2. Label elements

Regulation (EC) No 1272/2008

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

<u>2.3. Other hazards</u>
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	607-806-7	-	82-87	Not classified	Not applicable
Pigment	**	•	-	2-5	Not classified	Registered
Paraffin wax	8002-74-2	232-315-6	-	2-4	Not classified	Registered
Fatty acid ester	**	-	-	2.5-4	Not classified	Not applicable
Silicon dioxide (amorphous)	112945-52-5	601-216-3	-	0.5-3	Not classified	Registration exempt
PMMA	9011-14-7	618-466-4	-	1-3	Not classified	Not applicable
Silicon Dioxide (amorphous)	7631-86-9	231-545-4	-	0.5-1.5	Not classified	Registration exempt
Styrene-acrylate Resin	**	-	-	0.1-2	Not classified	Registered

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

Section 4: First aid measures

4.1. Description of first aid measures

General advice If symptoms persist, call a physician.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get immediate medical advice/attention.

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

plenty of water for at least 15 minutes.

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Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C, TN-261C, TN-265C, TN-281C, TN-285C Toner

Safety data sheet number: CT404-01

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

Ingestion Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of

water to drink.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Inhalation (dust): For large quantities: May cause irritation to the respiratory system.

Increased difficulty in breathing. Sneezing. Coughing

Eye contact: May cause eye irritation

Ingestion: May cause stomach ache. Unlikely route of exposure

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

Note to physicians Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

May form explosive dust clouds in air

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Do not use high-pressure water in order to prevent creating a dust cloud and spreading fire dust. Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel 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.

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Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C, TN-261C, TN-265C, TN-281C, TN-285C Toner

Safety data sheet number: CT404-01

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

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

Section 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Keep out of the reach of children. Avoid generation of dust. Avoid inhalation of high

concentrations of dust. Avoid contact with eyes.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from oxidizing agents.

7.3. Specific end use(s)

Specific use(s) These products are cyan toner in a cartridge for Brother Industries, Ltd. laser printers,

multifunction devices and fax receivers. The cartridge should be used as supplied by

Brother and for use in the products stated.

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

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Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C,

TN-261C, TN-265C, TN-281C, TN-285C Toner

Safety data sheet number: CT404-01

Chemical name	European Union	United Kingdom	France	Spain	Germany
Paraffin wax 8002-74-2	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	-
Silicon Dioxide (amorphous) 7631-86-9	-	TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³	-	-	TWA: 4 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Paraffin wax 8002-74-2	-	TWA: 2 mg/m ³	-	TWA: 1 mg/m ³	TWA: 2 mg/m ³
Silicon Dioxide (amorphous) 7631-86-9	-	-	-	TWA: 5 mg/m ³	-
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Paraffin wax 8002-74-2	-	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³ STEL: 4 mg/m ³	TWA: 2 mg/m ³ STEL: 6 mg/m ³
Silicon dioxide (amorphous) 112945-52-5	TWA: 4 mg/m ³	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: 1.5 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

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

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

Personal protective equipment Not normally required. For use other than in normal operating procedures (such as in the

event of large spill), the following should be applied:

Eye/face protection Safety goggles.

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

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brother at your side

SAFETY DATA SHEET

Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Safety data sheet number: CT404-01

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C, TN-264C, TN-264C

TN-261C, TN-265C, TN-281C, TN-285C Toner

Appearance

Physical state Solid Powder

Color cyan
Odor Odorless

Odor threshold No information available

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

pH No data available
Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation rate
No data available
No data available
Not applicable
Not applicable

Flammability (solid, gas)

Not applicable

Flammability Limit in Air None known

Upper flammability limit:

Lower flammability limit:

Vapor pressure

Vapor density

No data available

Not applicable

Not applicable

Relative density No data available $(H_2O=1)$

Water solubilityInsoluble in waterSolubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone known

Kinematic viscosity

Dynamic viscosity

Not applicable

No data available

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

approximately equal to that of coal dust

Oxidizing properties No information available

9.2. Other informationNo information available

Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep at a temperature not exceeding 200 °C. Keep away from heat. Avoid friction, sparks, or other means of ignition.

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Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Safety data sheet number: CT404-01

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C, TN-261C, TN-265C, TN-281C, TN-285C Toner

114 2010, 114 2000, 114 2010, 114 2000 101101

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation Acute $LC_{50} > 5.09 \text{ mg/l}$ (OECD 436 method)

Eye contact No information available

Skin contact: No information available

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

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4,750.00 mg/kg **ATEmix (dermal)** 3,417.20 mg/kg

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

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

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity

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

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Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Safety data sheet number: CT404-01

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C,

TN-261C, TN-265C, TN-281C, TN-285C Toner

Chemical name Algae/aquatic plants Fish Toxicity to Crustacea microorganisms Silicon Dioxide 440: 72 h 5000: 96 h Brachvdanio 7600: 48 h Ceriodaphnia (amorphous) rerio mg/L LC50 static dubia mg/L EC50 Pseudokirchneriella subcapitata mg/L EC50

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).

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 Not applicable

Annex II of MARPOL 73/78 and the

IBC Code

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Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Safety data sheet number: CT404-01

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C,

TN-261C, TN-265C, TN-281C, TN-285C Toner

RID

UN/ID no	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Environmental hazard	Not applicable
Special Provisions	None
	Proper shipping name Hazard Class Packing group Environmental hazard

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

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

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Revision Date: 30-Sep-2020 Issuing Date: 02-Apr-2012

Revision Number: 6

Safety data sheet number: CT404-01

Product Name: TN-221C, TN-225C, TN-241C, TN-245C, TN-251C, TN-255C,

TN-261C, TN-265C, TN-281C, TN-285C Toner

Key literature references and sources for data

No information available

Revision Date 30-Sep-2020

Issuing Date 02-Apr-2012

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).