

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

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

1.1. Product identifier

Product Name TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Product Form Mixture

Safety data sheet number CT406-01

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

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

2.2. Label elements

Regulation (EC) No 1272/2008

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

2.3. Other hazards

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

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

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS No | EC No | EC Index No | Weight-% | Specific concentration limit (SCL) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH Registration Number |
|-----------------------------|-------------|-----------|-------------|----------|------------------------------------|---|---------------------------|
| Styrene-acrylate-copolymer | 25767-47-9 | 607-806-7 | - | 65-75 | - | Not classified | Not applicable |
| Fatty acid ester | ** | - | - | 10-15 | - | Not classified | Registered |
| Styrene-acrylate Resin | ** | - | - | 5-10 | - | Not classified | Not applicable |
| Pigment | 147-14-8 | 205-685-1 | - | 2-7 | - | Not classified | Registered |
| PMMA | 9011-14-7 | 618-466-4 | - | 1-5 | - | Not classified | Not applicable |
| Silicon dioxide (amorphous) | 112945-52-5 | 601-216-3 | - | 1.0-3.0 | - | Not classified | Not applicable |
| Silicon dioxide (amorphous) | 844491-94-7 | 430-570-1 | - | 1.0-3.0 | - | Not classified | Registered |

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

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

Section 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------|--|
| General advice | If symptoms persist, call a physician. |
| Inhalation | Remove to fresh air. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact: | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. |
| Ingestion | 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 Skin contact: : Repeated and/or prolonged skin contact may cause irritation Eye contact: May cause eye irritation Ingestion: May cause stomach ache. Unlikely route of exposure |
|-----------------|--|

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

| | |
|---------------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|---------------------------|------------------------|

Section 5: Firefighting measures

5.1. Extinguishing media

| | |
|---------------------------------------|---|
| Suitable Extinguishing Media | Dry chemical, CO ₂ , water spray or regular foam |
| Unsuitable extinguishing media | Do not use water jet |

5.2. Special hazards arising from the substance or mixture

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

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

5.3. Advice for firefighters

Special protective equipment for fire-fighters

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

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for containment Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during cleanup. If a vacuum cleaner is used, the motor must be rated as dust explosion proof. Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter.

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

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

6.4. Reference to other sections

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

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

Section 7: Handling and storage

7.1. Precautions for safe handling

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

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific use(s) These products are cyan toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated.

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | United Kingdom | France | Spain | Germany |
|---|--|--------------------------|-------------|-----------------------------|---------|
| Pigment 147-14-8 | - | TWA: 1 mg/m ³ | - | TWA: 0.1 mg/m ³ | - |
| Chemical name | Italy | Portugal | Netherlands | Finland | Denmark |
| Pigment 147-14-8 | - | - | - | TWA: 0.02 mg/m ³ | - |
| Chemical name | Austria | Switzerland | Poland | Norway | Ireland |
| Pigment 147-14-8 | TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ STEL 4 mg/m ³ STEL 0.4 mg/m ³ | - | - | - | - |
| Silicon dioxide (amorphous) 112945-52-5 | TWA: 4 mg/m ³ | - | - | - | - |

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

Revision Date: 30-Sep-2022

Issuing Date: 04-Sep-2020

Revision Number: 3

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC,
TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC,
TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC,
TN881XXLC

Safety data sheet number: CT406-01

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. |

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

| | |
|----------------|--------------------------|
| Physical state | Solid Powder |
| Color | cyan |
| Odor | Odorless |
| Odor threshold | No information available |

Property

Values

Remarks • Method

| | | |
|--------------------------------|--------------------------|---|
| pH | Not applicable | None known |
| pH (as aqueous solution) | Not applicable | |
| Melting point / freezing point | 110 °C | 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: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

| | |
|----------------------|---|
| Inhalation | Acute LC ₅₀ > 5.36 mg/l (OECD 403 method) |
| Eye contact | No information available |
| Skin contact: | No information available |
| Ingestion | Acute LD ₅₀ > 2000 mg/kg (OECD 420 method) |

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

ATEmix (dermal) 5,005.00 mg/kg

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

| | |
|--|--|
| Skin corrosion/irritation | May cause slight irritation (OECD 404 method) |
| Serious eye damage/eye irritation | Minimal irritant to the eye (OECD 405 method) |
| Respiratory or skin sensitization | It is not a skin sensitizer (OECD 429 method) |
| Germ cell mutagenicity | AMES test : Negative (OECD 471 method) |
| Carcinogenicity | Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available |
| Aspiration hazard | No information available. |
| Potential health effects | Eye : May cause slight irritation Skin : Prolonged exposure may cause skin irritation Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Inhalation : Not an expected route of exposure Over exposure may cause respiratory irritation. |

11.2. Information on other hazards

No information available

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated
Contains 0 % of components with unknown hazards to the aquatic environment

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

There is no data for this product.

Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Pigment | 6.6 |

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

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 |

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 |

Revision Date: 30-Sep-2022

Issuing Date: 04-Sep-2020

Revision Number: 3

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC, TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC, TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC, TN881XXLC

Safety data sheet number: CT406-01

| | |
|----------------------------------|----------------|
| 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

Key literature references and sources for data

No information available

Revision Date 30-Sep-2022

Issuing Date 04-Sep-2020

Revision Note

SDS sections updated : 1 , 3

Revision Date: 30-Sep-2022

Issuing Date: 04-Sep-2020

Revision Number: 3

Product Name: TN810C, TN810XLC, TN815C, TNE80C, TN821XLC, TN821XXLC,
TN824CP, TN851C, TN851XLC, TN851XXLC, TN854CP, TN861C, TN861XLC,
TN861XXLC, TN871C, TN871XLC, TN871XXLC, TN874CP, TN881C, TN881XLC,
TN881XXLC

Safety data sheet number: CT406-01

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: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851M, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

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

1.1. Product identifier

Product Name TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851M, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Product Form Mixture

Safety data sheet number MT406-01

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

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: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

2.2. Label elements

Regulation (EC) No 1272/2008

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

2.3. Other hazards

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

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

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS No | EC No | EC Index No | Weight-% | Specific concentration limit (SCL) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH Registration Number |
|-----------------------------|-------------|-----------|-------------|----------|------------------------------------|---|---------------------------|
| Styrene-acrylate-copolymer | 25767-47-9 | 607-806-7 | - | 65-75 | - | Not classified | Not applicable |
| Styrene-acrylate Resin | ** | - | - | 10-15 | - | Not classified | Not applicable |
| Fatty acid ester | ** | - | - | 5-10 | - | Not classified | Registered |
| Pigment | ** | - | - | 5-10 | - | Not classified | Registered |
| PMMA | 9011-14-7 | 618-466-4 | - | 1-5 | - | Not classified | Not applicable |
| Silicon dioxide (amorphous) | 112945-52-5 | 601-216-3 | - | 1-3 | - | Not classified | Not applicable |
| Silicon dioxide (amorphous) | 844491-94-7 | 430-570-1 | - | 1-5 | - | Not classified | Registered |

** CONFIDENTIAL

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

Product Name: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

Section 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------|--|
| General advice | If symptoms persist, call a physician. |
| Inhalation | Remove to fresh air. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact: | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. |
| Ingestion | 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 Skin contact : Repeated and/or prolonged skin contact may cause irritation Eye contact: May cause eye irritation Ingestion: May cause stomach ache. Unlikely route of exposure |
|-----------------|---|

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

| | |
|---------------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|---------------------------|------------------------|

Section 5: Firefighting measures

5.1. Extinguishing media

| | |
|---------------------------------------|---|
| Suitable Extinguishing Media | Dry chemical, CO ₂ , water spray or regular foam |
| Unsuitable extinguishing media | Do not use water jet |

5.2. Special hazards arising from the substance or mixture

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

Product Name: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

5.3. Advice for firefighters

Special protective equipment for fire-fighters

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

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate

For emergency responders

Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate.

6.2. Environmental precautions

Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for containment

Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during cleanup. If a vacuum cleaner is used, the motor must be rated as dust explosion proof. Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter.

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections

See section 8 for more information. See section 13 for more information.

Product Name: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

Section 7: Handling and storage

7.1. Precautions for safe handling

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

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific use(s) These products are magenta toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated.

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

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

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Appropriate engineering controls 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.

Product Name: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

| | |
|--|--|
| 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 | Solid Powder |
| Color | magenta |
| Odor | Odorless |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---------------------------------------|--------------------------|---|
| pH | Not applicable | None known |
| pH (as aqueous solution) | Not applicable | |
| Melting point / freezing point | 110 °C | 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 | |

Product Name: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

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

Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation Acute LC₅₀ > 5.20 mg/l/4h (OECD 403 method)

Eye contact No information available

Product Name: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

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

11.2. Information on other hazards

No information available

Product Name: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

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).

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 |

Product Name: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM, TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM, TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM, TN881XXLM

Safety data sheet number: MT406-01

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

Section 15: Regulatory information

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

EU-Regulations

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

National Regulations

No information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Revision Date: 30-Sep-2022

Issuing Date: 04-Sep-2020

Revision Number: 3

Product Name: TN810M, TN810XLM, TN815M, TNE80M, TN821XLM, TN821XXLM,
TN824MP, TN851Y, TN851XLM, TN851XXLM, TN854MP, TN861M, TN861XLM,
TN861XXLM, TN871M, TN871XLM, TN871XXLM, TN874MP, TN881M, TN881XLM,
TN881XXLM

Safety data sheet number: MT406-01

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-2022

Issuing Date 04-Sep-2020

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: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851Y, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

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

1.1. Product identifier

Product Name TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851Y, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Product Form Mixture

Safety data sheet number YT406-01

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

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

2.2. Label elements

Regulation (EC) No 1272/2008

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

2.3. Other hazards

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

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

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS No | EC No | EC Index No | Weight-% | Specific concentration limit (SCL) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH Registration Number |
|--|--------------|-----------|-------------|----------|------------------------------------|---|---------------------------|
| Polymer of styrene / butyl acrylate / Isoprene | 2180952-57-2 | - | - | 60-80 | - | Not classified | Not applicable |
| Fatty acid ester | ** | - | - | 10-15 | - | Not classified | Registered |
| Styrene-acrylate Resin | ** | - | - | 5-10 | - | Not classified | Not applicable |
| Pigment | ** | - | - | 3-6 | - | Not classified | Registered |
| PMMA | 9011-14-7 | 618-466-4 | - | 1-3 | - | Not classified | Not applicable |
| Silicon dioxide (amorphous) | 112945-52-5 | 601-216-3 | - | 1-3 | - | Not classified | Not applicable |
| Silicon dioxide (amorphous) | 844491-94-7 | 430-570-1 | - | < 1.0 | - | Not classified | Registered |

** CONFIDENTIAL

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

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

Section 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------|--|
| General advice | If symptoms persist, call a physician. |
| Inhalation | Remove to fresh air. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact: | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. |
| Ingestion | 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 Skin contact : Repeated and/or prolonged skin contact may cause irritation Eye contact: May cause eye irritation Ingestion: May cause stomach ache. Unlikely route of exposure |
|-----------------|---|

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

| | |
|---------------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|---------------------------|------------------------|

Section 5: Firefighting measures

5.1. Extinguishing media

| | |
|---------------------------------------|---|
| Suitable Extinguishing Media | Dry chemical, CO ₂ , water spray or regular foam |
| Unsuitable extinguishing media | Do not use water jet |

5.2. Special hazards arising from the substance or mixture

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

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

5.3. Advice for firefighters

Special protective equipment for fire-fighters

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

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate

For emergency responders

Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate.

6.2. Environmental precautions

Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for containment

Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during cleanup. If a vacuum cleaner is used, the motor must be rated as dust explosion proof. Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter.

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections

See section 8 for more information. See section 13 for more information.

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

Section 7: Handling and storage

7.1. Precautions for safe handling

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

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific use(s) These products are yellow toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated.

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

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

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Appropriate engineering controls No information available.

Personal protective equipment Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:

Eye/face protection Safety goggles.

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

| | |
|--|--|
| 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 | Solid Powder |
| Color | yellow |
| Odor | Odorless |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---------------------------------------|--------------------------|---|
| pH | Not applicable | None known |
| pH (as aqueous solution) | Not applicable | |
| Melting point / freezing point | 110 °C | 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 | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Explosive properties | No information available | Explosive limits of toner particles suspended in air approximately equal to that of coal dust |
| Oxidizing properties | No information available | |

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

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

Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation Acute LC₅₀ > 5.19mg/l (OECD 403 method)

Eye contact No information available

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

| | |
|--|--|
| Skin contact: | May be harmful in contact with skin |
| Ingestion | Acute LD ₅₀ > 2000 mg/kg (OECD 420 method) |
| Skin corrosion/irritation | May cause slight irritation (OECD 404 method) |
| Serious eye damage/eye irritation | Minimal irritant to the eye (OECD 405 method) |
| Respiratory or skin sensitization | It is not a skin sensitizer (OECD 429 method) |
| Germ cell mutagenicity | AMES test : Negative (OECD 471 method) |
| Carcinogenicity | Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available |
| Aspiration hazard | No information available. |
| Potential health effects | Eye : May cause slight irritation Skin : Prolonged exposure may cause skin irritation Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Inhalation : Not an expected route of exposure Over exposure may cause respiratory irritation. |

11.2. Information on other hazards

No information available

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated
Contains 0 % of components with unknown hazards to the aquatic environment

12.2. Persistence and degradability

No information available.

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

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. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

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

Section 14: Transport information

IMDG

| | |
|---|----------------|
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper shipping name | Not regulated |
| 14.3 Hazard Class | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Marine pollutant | Not applicable |
| 14.6 Special Provisions | None |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable |

RID

| | |
|---------------------------|---------------|
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper shipping name | Not regulated |
| 14.3 Hazard Class | Not regulated |
| 14.4 Packing group | Not regulated |

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY, TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY, TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY, TN881XXLY

Safety data sheet number: YT406-01

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

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-2022

Issuing Date: 04-Sep-2020

Revision Number: 3

Product Name: TN810Y, TN810XLY, TN815Y, TNE80Y, TN821XLY, TN821XXLY,
TN824YP, TN851M, TN851XLY, TN851XXLY, TN854YP, TN861Y, TN861XLY,
TN861XXLY, TN871Y, TN871XLY, TN871XXLY, TN874YP, TN881Y, TN881XLY,
TN881XXLY

Safety data sheet number: YT406-01

Revision Date 30-Sep-2022

Issuing Date 04-Sep-2020

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: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

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

1.1. Product identifier

Product Name TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Product Form Mixture

Safety data sheet number PT406-01

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

Relevant identified uses These products are black toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated. Information provided on this SDS is only consistent with the use specified by Brother.

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer Brother Industries, Ltd.
15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan
Telephone (for information): +81-52-824-2735

Importer (Europe)
Brother International Europe Ltd.
1 Tame Street, Audenshaw, Manchester M34 5JE, UK
Brother International (Nederland) B.V.
Zanderij 25, 1185 ZM Amstelveen, The Netherlands
Telephone (for information): +44-161-330-6531

For further information, please contact

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

1.4. Emergency telephone number

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

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

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

2.2. Label elements

Regulation (EC) No 1272/2008

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

2.3. Other hazards

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

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

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS No | EC No | EC Index No | Weight-% | Specific concentration limit (SCL) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH Registration Number |
|-----------------------------|-------------|------------------------|-------------|----------|------------------------------------|---|---------------------------|
| Styrene-acrylate-copolymer | 25767-47-9 | 607-806-7 | - | 60-80 | - | Not classified | Not applicable |
| Fatty acid ester | ** | - | - | 13-15 | - | Not classified | Registered |
| Styrene-acrylate Resin | ** | - | - | 7-9 | - | Not classified | Not applicable |
| Carbon Black | 1333-86-4 | 215-609-9 435-640-3 | - | 2-9 | - | Not classified | 01-2119384822-32-XXXX |
| PMMA | 9011-14-7 | 618-466-4 | - | 1.0-3.0 | - | Not classified | Not applicable |
| Silicon dioxide (amorphous) | 112945-52-5 | 601-216-3 | - | 1.0-2.0 | - | Not classified | Not applicable |
| Silicon Dioxide (amorphous) | 7631-86-9 | 231-545-4 | - | < 1 | - | Not classified | 01-2119379499-16-XXXX |
| Zinc stearate | 557-05-1 | 209-151-9 | - | <= 0.3 | - | Not classified | Not applicable |

** CONFIDENTIAL

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

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

Section 4: First aid measures

4.1. Description of first aid measures

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

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

Section 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use water jet

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Ensure adequate ventilation. Avoid contact with eyes. Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate

For emergency responders Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate.

6.2. Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for containment Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during cleanup. If a vacuum cleaner is used, the motor must be rated as dust explosion proof. Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter.

Revision Date: 30-Sep-2022

Issuing Date: 04-Sep-2020

Revision Number: 3

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

| | |
|--|--|
| 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.

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | United Kingdom | France | Spain | Germany |
|---|--|---|-----------------------------|---|---|
| Carbon Black 1333-86-4 | - | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ | TWA: 3.5 mg/m ³ | TWA: 3.5 mg/m ³ | - |
| Silicon Dioxide (amorphous) 7631-86-9 | TWA 0.1 mg/m ³ respirable fraction | TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ TWA: 0.1 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³ | - | - | TWA: 4 mg/m ³ |
| Zinc stearate 557-05-1 | - | TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 20 mg/m ³ STEL: 12 mg/m ³ | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ | - |
| Chemical name | Italy | Portugal | Netherlands | Finland | Denmark |
| Carbon Black 1333-86-4 | - | TWA: 3 mg/m ³ | - | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ | TWA: 3.5 mg/m ³ |
| Silicon Dioxide (amorphous) 7631-86-9 | TWA: 0.1 mg/m ³ | TWA: 0.05 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.75 mg/m ³ | TWA: 5 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.1 mg/m ³ | - |
| Zinc stearate 557-05-1 | - | TWA: 10 mg/m ³ | - | TWA: 10 mg/m ³ | - |
| Chemical name | Austria | Switzerland | Poland | Norway | Ireland |
| Carbon Black 1333-86-4 | - | - | TWA: 4 mg/m ³ | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ | TWA: 3 mg/m ³ STEL: 15 mg/m ³ |
| Silicon dioxide (amorphous) 112945-52-5 | TWA: 4 mg/m ³ | - | - | - | - |
| Silicon Dioxide (amorphous) 7631-86-9 | TWA: 4 mg/m ³ | TWA: 4 mg/m ³ | - | TWA: 1.5 mg/m ³ STEL: 3 mg/m ³ | TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³ |
| Zinc stearate 557-05-1 | - | TWA: 3 mg/m ³ | - | - | TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 12 mg/m ³ STEL: 20 mg/m ³ STEL: 30 mg/m ³ |

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

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 | Solid 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 | None known |
| Melting point / freezing point | 110 °C | 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 |

Revision Date: 30-Sep-2022

Issuing Date: 04-Sep-2020

Revision Number: 3

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

| | | |
|-----------------------------|--------------------------|---|
| 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

Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

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

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

| | |
|----------------------|---|
| Inhalation | Acute LC ₅₀ > 5.24 mg/l (OECD 403 method) |
| Eye contact | No information available |
| Skin contact: | May be harmful in contact with skin |
| Ingestion | Acute LD ₅₀ > 2000 mg/kg (OECD 420 method) |

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

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

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

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

Carcinogenicity Carbon Black: In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available

Aspiration hazard No information available.

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

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 |
|-----------------------------|---|--|----------------------------|---|
| Carbon Black | - | 1000:96 h Brachydanio rerio mg/L LC50 | - | 5600:24 h Daphnia magna mg/L EC50 |
| Silicon Dioxide (amorphous) | EC50: =440mg/L (72h, Pseudokirchneriella subcapitata) | LC50: =5000mg/L (96h, Brachydanio rerio) | - | EC50: =7600mg/L (48h, Ceriodaphnia dubia) |

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

There is no data for this product.

Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Zinc stearate | 4.64 |

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.

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK, TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP, TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK, TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

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 |

Revision Date: 30-Sep-2022

Issuing Date: 04-Sep-2020

Revision Number: 3

Product Name: TN810BK, TN810XLBK, TN815BK, TNE80BK, TN821XLBK,
TN821XXLBK, TN824BKP, TN851BK, TN851XLBK, TN851XXLBK, TN854BKP,
TN861BK, TN861XLBK, TN861XXLBK, TN871BK, TN871XLBK, TN871XXLBK,
TN874BKP, TN881BK, TN881XLBK, TN881XXLBK

Safety data sheet number: PT406-01

Section 15: Regulatory information

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

EU-Regulations

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

National Regulations

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-2022

Issuing Date 04-Sep-2020

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).