

Product Name: TZe cassette ribbon, TZ cassette ribbon (Black)

Revision Date: 15-Nov-2018

Issuing Date: 08-Nov-2010

Revision Number: 3.1

Safety data sheet number: 5VA926-M1-1

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

1.1. Product identifier

Product Name TZe cassette ribbon, TZ cassette ribbon (Black)

Model Number List For applicable model numbers see the model number list in "16.Other information"

Product Form Mixture

Safety data sheet number 5VA926-M1-1

Product Name TZe cassette ribbon

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

Relevant identified uses No information available

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

Brother International Europe Ltd.
Brother House, 1 Tame Street, Audenshaw, Manchester M34 5JE, UK
Telephone (for information): +44-161-330-6531

Brother International (Aust.) Pty. Ltd. ACN 001 393 835
Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia
Telephone (for information): +61-2-9887-4344

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)
CHEMTREC +61-290372994 (Australia)

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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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

No information available

Section 3: Composition/information on ingredients

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 |
|---------------------------------|-----------|------------------------|-------------|----------|---|---------------------------|
| Wax | ** | - | - | ** | Not classified | No data available |
| Synthetic resin | ** | - | - | ** | Not classified | No data available |
| Resin | ** | ** | - | ** | Not classified | No data available |
| Polyethylene terephthalate film | ** | - | - | ** | Not classified | No data available |
| Paraffin wax | 8002-74-2 | 232-315-6 | - | <=12 | Not classified | No data available |
| Organic filler | ** | - | - | ** | Not classified | No data available |
| Dispersant | ** | - | - | ** | Not classified | No data available |
| Carbon Black | 1333-86-4 | 215-609-9 435-640-3 | - | 2-9 | Not classified | No data available |
| Additive | ** | - | - | ** | Not classified | No data available |

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

Section 4: First aid measures

4.1. Description of first aid measures

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.

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Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

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

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

Symptoms No information available

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 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

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

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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 Ensure adequate ventilation.

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)

The information required is contained in this Material Safety Data Sheet.

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

| 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 | - |
| 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 | - |
| 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 |
| Carbon Black 1333-86-4 | - | TWA: 3.5 mg/m ³ | - | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ | TWA: 3.5 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 |
| Carbon Black 1333-86-4 | - | - | TWA: 4.0 mg/m ³ | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ | TWA: 3 mg/m ³ STEL: 15 mg/m ³ |

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

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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 | No special protective equipment required. |
| Skin and body protection | No special protective equipment required. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| Environmental exposure controls | No information available. |

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

| | |
|----------------|--------------------------|
| Physical state | film |
| Color | black |
| Odor | Slight wax odor. |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|--|
| pH | No data available | |
| Melting point / freezing point | No data available | |
| Boiling point / boiling range | No data available | |
| 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 | |
| Vapor density | No data available | |
| Relative density | No data available | |
| Water solubility | negligible | |
| Solubility(ies) | No information available | |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | Not determined | |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | |
| 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

No information available

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Section 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

None known based on information supplied

10.5. Incompatible materials

None known based on information supplied

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

| | |
|-----------------------------------|--------------------------|
| Inhalation | No information available |
| Eye contact | No information available |
| Skin contact | No information available |
| Ingestion | No information available |
| Skin corrosion/irritation | No information available |
| Serious eye damage/eye irritation | No information available |
| Respiratory or skin sensitization | No information available |
| Germ cell mutagenicity | No information available |

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

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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.

Section 12: Ecological information

12.1. Toxicity

Contains 100 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------|----------------------|------|----------------------------|------------------------------------|
| Carbon Black | - | - | - | 5600: 24 h Daphnia magna 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 preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). . This preparation 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

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Section 14: Transport information

IMDG

14.1 UN/ID no Not regulated

14.2 Proper shipping name Not regulated

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- 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 No information available

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

No information available

National Regulations

15.2. Chemical safety assessment

No information available

Section 16: Other information

Model Number List

The model number of the cassette covered by this Safety Data Sheet is as follows.

| | | | | |
|------------|------------|------------|------------|------------|
| TZe-111 | TZe-111V | TZe-121 | TZe-121V | TZe-131 |
| TZe-1312PK | TZe-131S | TZe-131V | TZe-141 | TZe-141V |
| TZe-151 | TZe-151V | TZe-161 | TZe-161V | TZe-211 |
| TZe-211V | TZe-221 | TZe-221V | TZe-221V2 | TZe-231 |
| TZe-2311 | TZe-2312PK | TZe-2314PK | TZe-231CIV | TZe-231S |
| TZe-231V | TZe-231V10 | TZe-231V2 | TZe-2322 | TZe-241 |
| TZe-241CIV | TZe-241V | TZe-251 | TZe-251CIV | TZe-251V |
| TZe-251V10 | TZe-261 | TZe-261CIV | TZe-261V | TZe-31M3 |
| TZe-31V3 | TZe-31VA | TZe-32M3 | TZe-33M3 | TZe-421 |
| TZe-431 | TZe-431S | TZe-441 | TZe-451 | TZe-461 |
| TZe-521 | TZe-531 | TZe-541 | TZe-551 | TZe-561 |
| TZe-611 | TZe-611V | TZe-621 | TZe-621V | TZe-631 |
| TZe-631S | TZe-631V | TZe-641 | TZe-641V | TZe-651 |
| TZe-651V | TZe-661 | TZe-661V | TZe-721 | TZe-731 |
| TZe-741 | TZe-751 | TZe-761 | TZe-AF131 | TZe-AF231 |
| TZe-B31 | TZe-B41 | TZe-B51 | TZe-BA151 | TZe-BW31 |
| TZe-BY31 | TZe-C31 | TZe-C51 | TZe-DB31 | TZe-DH31 |
| TZe-DL31 | TZe-DP31 | TZe-DW31 | TZe-DY31 | TZe-FX211 |
| TZe-FX221 | TZe-FX231 | TZe-FX231C | TZe-FX241 | TZe-FX251 |
| TZe-FX261 | TZe-FX431 | TZe-FX441 | TZe-FX451 | TZe-FX551 |
| TZe-FX611 | TZe-FX621 | TZe-FX631 | TZe-FX631C | TZe-FX641 |
| TZe-FX651 | TZe-FX661 | TZe-FX731 | TZe-FX741 | TZe-FX751 |
| TZe-HP31 | TZe-HW31 | TZe-HY31 | TZe-LG31 | TZe-LW31 |
| TZe-M251 | TZe-M31 | TZe-M51 | TZe-M921 | TZe-M931 |
| TZe-M941 | TZe-M951 | TZe-M961 | TZe-MB31 | TZe-MPGG31 |
| TZe-MPMC31 | TZe-MPPD31 | TZe-MPPF31 | TZe-MPPH31 | TZe-MPRG31 |
| TZe-MPSL31 | TZe-MPTP31 | TZe-MPYS31 | TZe-MT3107 | TZe-MT3115 |
| TZe-MT3121 | TZe-MT3123 | TZe-MQE31 | TZe-MQF31 | TZe-MV31 |
| TZe-MW31 | TZe-PR831 | TZe-PR851 | TZe-RY31 | TZe-S121 |
| TZe-S131 | TZe-S141 | TZe-S151 | TZe-S211 | TZe-S221 |
| TZe-S231 | TZe-S231CS | TZe-S241 | TZe-S241CS | TZe-S251 |
| TZe-S261 | TZe-S621 | TZe-S631 | TZe-S641 | TZe-S641CS |
| TZe-S651 | TZe-S661 | TZe-S941 | TZe-S951 | TZe-S961 |
| TZe-SE4 | TZe-SE5 | TZe-SG31 | TZe-SM941 | TZe-SM951 |
| TZe-SM961 | TZe-SW31 | TZe-UB31 | TZe-UP31 | TZe-YGP3PK |
| TZe-Z111 | TZe-Z121 | TZe-Z131 | TZe-Z211 | TZe-Z221 |
| TZe-Z231 | TZe-Z421 | TZe-Z431 | TZe-Z521 | TZe-Z531 |
| TZe-Z611 | TZe-Z621 | TZe-Z631 | TZe-Z721 | TZe-Z731 |
| TZe-ZB31 | TZe-ZC31 | TZe-ZFX211 | TZe-ZFX221 | TZe-ZFX231 |
| TZe-ZFX611 | TZe-ZFX621 | TZe-ZFX631 | TZe-ZM931 | TZe-ZS121 |
| TZe-ZS131 | TZe-ZS211 | TZe-ZS221 | TZe-ZS231 | TZe-ZS621 |
| TZe-ZS631 | | | | |

| | | | | |
|-----------|-----------|-----------|----------|-----------|
| TZ-111 | TZ-111V | TZ-121 | TZ-121V | TZ-122 |
| TZ-123 | TZ-131 | TZ-131V | TZ-141 | TZ-141V |
| TZ-151 | TZ-151V | TZ-161 | TZ-161V | TZ-211 |
| TZ-211V | TZ-221 | TZ-2212PK | TZ-221V | TZ-221V2 |
| TZ-231 | TZ-2312PK | TZ-231CIV | TZ-231S | TZ-231V |
| TZ-231V10 | TZ-231V2 | TZ-241 | TZ-2413 | TZ-241CIV |
| TZ-241V | TZ-251 | TZ-251CIV | TZ-251V | TZ-251V10 |
| TZ-261 | TZ-261CIV | TZ-261V | TZ-31M3 | TZ-31V3 |
| TZ-31VA | TZ-411 | TZ-421 | TZ-431 | TZ-431S |
| TZ-441 | TZ-451 | TZ-461 | TZ-511 | TZ-521 |
| TZ-531 | TZ-541 | TZ-551 | TZ-561 | TZ-611 |
| TZ-611V | TZ-621 | TZ-621V | TZ-631 | TZ-631V |
| TZ-641 | TZ-641V | TZ-651 | TZ-651V | TZ-661 |
| TZ-661V | TZ-711 | TZ-721 | TZ-731 | TZ-741 |
| TZ-751 | TZ-761 | TZ-831 | TZ-841 | TZ-851 |
| TZ-931 | TZ-941 | TZ-951 | TZ-A31 | TZ-A51 |
| TZ-AF131 | TZ-AF231 | TZ-AFG31 | TZ-AFW31 | TZ-B21 |
| TZ-B31 | TZ-B41 | TZ-B51 | TZ-BA151 | TZ-BW31 |

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| | | | | |
|-----------|----------|-----------|-----------|----------|
| TZ-BY31 | TZ-C21 | TZ-C31 | TZ-C41 | TZ-C51 |
| TZ-D21 | TZ-D231 | TZ-D241 | TZ-D31 | TZ-DC31 |
| TZ-DE31 | TZ-DF31 | TZ-DG31 | TZ-DH31 | TZ-DH41 |
| TZ-DL31 | TZ-DL41 | TZ-DP31 | TZ-DV31A | TZ-DV31B |
| TZ-DW31 | TZ-DY31 | TZ-FX111 | TZ-FX121 | TZ-FX131 |
| TZ-FX141 | TZ-FX151 | TZ-FX161 | TZ-FX211 | TZ-FX221 |
| TZ-FX231 | TZ-FX241 | TZ-FX251 | TZ-FX261 | TZ-FX431 |
| TZ-FX611 | TZ-FX621 | TZ-FX631 | TZ-FX641 | TZ-FX651 |
| TZ-FX661 | TZ-FX731 | TZ-GB31 | TZ-GY31 | TZ-HB31 |
| TZ-HW31 | TZ-M21 | TZ-M241 | TZ-M251 | TZ-M31 |
| TZ-M41 | TZ-M51 | TZ-M831 | TZ-M841 | TZ-M851 |
| TZ-M931 | TZ-M941 | TZ-M951 | TZ-M961 | TZ-S111 |
| TZ-S121 | TZ-S131 | TZ-S141 | TZ-S151 | TZ-S161 |
| TZ-S211 | TZ-S221 | TZ-S231 | TZ-S231CS | TZ-S241 |
| TZ-S241CS | TZ-S251 | TZ-S261 | TZ-S611 | TZ-S621 |
| TZ-S631 | TZ-S641 | TZ-S641CS | TZ-S651 | TZ-S661 |
| TZ-SE4 | TZ-SM941 | TZ-SM951 | TZ-SM961 | TZ-UB31 |
| TZ-UP31 | TZ-US31 | | | |

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

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Reason for revision

As the Product Safety Information Sheet (PSIS) has been abolished, the model number has been added to "Section 16. Other Information"

Revision Note SDS sections updated

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

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.