

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

Revision Date: 28-Jul-2020

Issuing Date: 08-Nov-2010

Revision Number: 8

Safety data sheet number: 5VA926-M5-1

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

### 1.1. Product identifier

**Product Name** TZe cassette ribbon, TZ cassette ribbon (White)

**Product Form** Mixture

**Safety data sheet number** 5VA926-M5-1

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

**Relevant identified uses** These products are ink ribbons for TZe / TZ cassette manufactured by Brother Industries, Ltd.

**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

### For further information, please contact

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

### 1.4. Emergency telephone number

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

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

## Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

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

### 2.2. Label elements

**Regulation (EC) No 1272/2008**

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

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**2.3. Other hazards**

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

**Section 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical name                   | CAS No     | EC No     | EC Index No | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH Registration Number |
|---------------------------------|------------|-----------|-------------|----------|---|---------------------------|
| Titanium dioxide                | 13463-67-7 | 236-675-5 | -           | 33-35    | Not classified  | No data available         |
| Paraffin wax                    | 8002-74-2  | 232-315-6 | -           | 7        | Not classified  | No data available         |
| Silicon Dioxide (amorphous)     | 7631-86-9  | 231-545-4 | -           | 2        | Not classified  | No data available         |
| Wax                             | **         | -         | -           | **       | Not classified  | No data available         |
| Resin                           | **         | **        | -           | **       | Not classified  | No data available         |
| Polyethylene terephthalate film | **         | -         | -           | **       | Not classified  | No data available         |
| Colorant                        | **         | **        | -           | **       | Not classified  | No data available         |
| Additive                        | **         | -         | -           | **       | Not classified  | No data available         |

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

**Section 4: First aid measures**

**4.1. Description of first aid measures**

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

**Inhalation** Not applicable.

**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 off immediately with soap and plenty of water.

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

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

**Symptoms** No specific effects and/or symptoms have been reported or known

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

**Note to physicians** Treat symptomatically.

**Section 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, water spray or regular foam

**Unsuitable extinguishing media** None

**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** Wear self-contained breathing apparatus and protective suit.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** Not normally required.

**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** Not applicable.

**Methods for cleaning up** Not applicable

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**Prevention of secondary hazards** Not applicable.

**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** Avoid contact with skin and 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 ink ribbons for TZe / TZ cassette manufactured by Brother Industries, Ltd.

**Section 8: Exposure controls and personal protection**

**8.1. Control parameters**

**Exposure Limits**

| Chemical name                               | European Union | United Kingdom  | France                    | Spain                     | Germany                  |
|---|----------------|---|---------------------------|---------------------------|--------------------------|
| Titanium dioxide<br>13463-67-7              | -              | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup> | -                        |
| Paraffin wax<br>8002-74-2                   | -              | TWA: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup>  | TWA: 2 mg/m <sup>3</sup>  | -                        |
| Silicon Dioxide<br>(amorphous)<br>7631-86-9 | -              | TWA: 6 mg/m <sup>3</sup><br>TWA: 2.4 mg/m <sup>3</sup><br>STEL: 18 mg/m <sup>3</sup><br>STEL: 7.2 mg/m <sup>3</sup> | -                         | -                         | TWA: 4 mg/m <sup>3</sup> |
| Chemical name                               | Italy          | Portugal  | Netherlands               | Finland                   | Denmark                  |
| Titanium dioxide<br>13463-67-7              | -              | TWA: 10 mg/m <sup>3</sup>   | -                         | -                         | TWA: 6 mg/m <sup>3</sup> |
| Paraffin wax<br>8002-74-2                   | -              | TWA: 2 mg/m <sup>3</sup>  | -                         | TWA: 1 mg/m <sup>3</sup>  | TWA: 2 mg/m <sup>3</sup> |
| Silicon Dioxide<br>(amorphous)<br>7631-86-9 | -              | -   | -                         | TWA: 5 mg/m <sup>3</sup>  | -                        |

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| Chemical name                               | Austria   | Switzerland              | Poland   | Norway  | Ireland   |
|---|---|--------------------------|--|---|---|
| Titanium dioxide<br>13463-67-7              | TWA: 5 mg/m <sup>3</sup><br>STEL 10 mg/m <sup>3</sup> | TWA: 3 mg/m <sup>3</sup> | STEL: 30 mg/m <sup>3</sup><br>TWA: 10.0 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>    | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup>   |
| Paraffin wax<br>8002-74-2                   | -   | TWA: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup><br>STEL: 4 mg/m <sup>3</sup>     | TWA: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup>   |
| Silicon Dioxide<br>(amorphous)<br>7631-86-9 | TWA: 4 mg/m <sup>3</sup>                              | TWA: 4 mg/m <sup>3</sup> | -  | TWA: 1.5 mg/m <sup>3</sup><br>STEL: 1.5 mg/m <sup>3</sup> | TWA: 6 mg/m <sup>3</sup><br>TWA: 2.4 mg/m <sup>3</sup><br>STEL: 18 mg/m <sup>3</sup><br>STEL: 7.2 mg/m <sup>3</sup> |

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

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

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

**Eye/face protection** Safety goggles.

**Hand protection** Protective gloves.

**Skin and body protection** Not normally required.

**Respiratory protection** No special protective equipment required.

**Environmental exposure controls** Not normally required.

## **Section 9: Physical and chemical properties**

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

**Appearance**  
**Physical state** film  
**Color** white  
**Odor** Slight wax odor.  
**Odor threshold** No information available

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH                             | Not applicable           | None known              |
| Melting point / freezing point | Not applicable           | None known              |
| Boiling point / boiling range  | Not applicable           | None known              |
| Flash point                    | No information available | None known,             |
| Evaporation rate               | No information available | None known              |

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|                                  |                          |                          |
|----------------------------------|--------------------------|--------------------------|
| <b>Flammability (solid, gas)</b> | No information available | None known,              |
| <b>Flammability Limit in Air</b> |                          | None known               |
| <b>Upper flammability limit:</b> | No information available |                          |
| <b>Lower flammability limit:</b> | No information available |                          |
| <b>Vapor pressure</b>            | Not applicable           | None known               |
| <b>Vapor density</b>             | Not applicable           | None known               |
| <b>Relative density</b>          | No information available | None known               |
| <b>Water solubility</b>          | negligible               |                          |
| <b>Solubility(ies)</b>           | No information available |                          |
| <b>Partition coefficient</b>     | No information available | None known               |
| <b>Autoignition temperature</b>  | No information available | None known               |
| <b>Decomposition temperature</b> | No information available |                          |
| <b>Kinematic viscosity</b>       | Not applicable           | None known               |
| <b>Dynamic viscosity</b>         | Not applicable           | None known               |
| <b>Explosive properties</b>      | Not applicable           | No information available |
| <b>Oxidizing properties</b>      | No information available |                          |

**9.2. Other information**

No information available

**Section 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

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**Product Information**

**Inhalation** No information available  
**Eye contact** No information available  
**Skin contact:** No information available  
**Ingestion** No information available

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

**ATEmix (oral)** 8,277.50 mg/kg  
**ATEmix (dermal)** 3,059.70 mg/kg

**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** Printing inks: IARC Classification: Group 3 (Non-classified Human Carcinogen)  
Titanium dioxide: IARC Classification: Group 2B (Possible human carcinogen)  
Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity**

Contains 57 % of components with unknown hazards to the aquatic environment.

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

**12.2. Persistence and degradability**

No information available.

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**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

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

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

**12.6. Other adverse effects**

No information available.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

Dispose 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 |



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|                                  |                |
|----------------------------------|----------------|
| <b>14.3 Hazard Class</b>         | Not regulated  |
| <b>14.4 Packing group</b>        | Not regulated  |
| <b>14.5 Environmental hazard</b> | Not applicable |
| <b>14.6 Special Provisions</b>   | None           |

**IATA**

|                                  |                |
|----------------------------------|----------------|
| <b>14.1 UN/ID no</b>             | Not regulated  |
| <b>14.2 Proper shipping name</b> | Not regulated  |
| <b>14.3 Hazard Class</b>         | Not regulated  |
| <b>14.4 Packing group</b>        | Not regulated  |
| <b>14.5 Environmental hazard</b> | Not applicable |
| <b>14.6 Special Provisions</b>   | 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**

**Model Number List**

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

|            |            |           |           |            |
|------------|------------|-----------|-----------|------------|
| TZe-135    | TZe-145    | TZe-315   | TZe-325   | TZe-335    |
| TZe-345    | TZe-355    | TZe-365   | TZe-435   | TZe-465    |
| TZe-525    | TZe-535    | TZe-545   | TZe-555   | TZe-565    |
| TZe-725    | TZe-735    | TZe-755   | TZe-765   | TZe-BA155  |
| TZe-M35    | TZe-M355   | TZe-M365  | TZE-M65   | TZe-ML35   |
| TZe-ML55   | TZe-MQ355  | TZE-MQ365 | TZe-MQ835 | TZe-MQ835S |
| TZe-MQ855  | TZe-MQG35  | TZe-MQG55 | TZe-MQL35 | TZe-MQL55  |
| TZe-MQP35  | TZe-MQP35S | TZe-MQP55 | TZe-MR35  | TZe-MT3501 |
| TZe-MT3505 | TZe-PR935  | TZe-PR955 | TZe-S135  | TZe-Z135   |
| TZe-Z325   | TZe-Z335   | TZe-Z435  | TZe-Z535  | TZe-Z735   |
| TZ-125     | TZ-135     | TZ-145    | TZ-155    | TZ-165     |
| TZ-315     | TZ-325     | TZ-335    | TZ-345    | TZ-355     |
| TZ-365     | TZ-435     | TZ-455    | TZ-535    | TZ-545     |
| TZ-555     | TZ-635     | TZ-655    | TZ-735    | TZ-755     |
| TZ-A25     | TZ-BA155   | TZ-MQ835  | TZ-MQG35  | TZ-MQL35   |
| TZ-MQP35   | TZ-Q35V3   | TZ-S135   | TZ-S145   | TZ-S155    |

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**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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**Revision Note**

Applicable model number has been updated.

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

**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).**