

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

Revision Date: 26-Mar-2021

Issuing Date: 08-Nov-2010

Revision Number: 10

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

### For further information, please contact

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

### 1.4. Emergency telephone number

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

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

## Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

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

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

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**2.2. Label elements**

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

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

EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust

**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
Titanium dioxide	13463-67-7	236-675-5	022-006-00-2	33-35	-	Carc. 2 (H351i)	Not applicable
Paraffin wax	8002-74-2	232-315-6	-	7	-	Not classified	Not applicable
Silicon Dioxide (amorphous)	7631-86-9	231-545-4	-	2	-	Not classified	01-2119379499-16-XXXX
Wax	**	-	-	**	-	Not classified	Not applicable
Resin	**	**	-	**	-	Not classified	Not applicable
Polyethylene terephthalate film	**	-	-	**	-	Not classified	Not applicable
Colorant	**	**	-	**	-	Not classified	Not applicable
Additive	**	-	-	**	-	Not classified	Not applicable

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

**Section 4: First aid measures**

**4.1. Description of first aid measures**

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

**Inhalation** Not applicable.

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<b>Eye contact</b>	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical advice/attention.
<b>Skin contact:</b>	Wash off immediately with soap and plenty of water.
<b>Ingestion</b>	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** Thermal decomposition can lead to release of irritating and toxic gases and vapors Carbon monoxide , Carbon dioxide (CO<sub>2</sub>) , Nitrogen oxides (NO<sub>x</sub>) , Oxides of sulfur

**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.

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**6.2. Environmental precautions**

**Environmental precautions** Avoid release to the environment.

**Environmental precautions** Prevent substance entering sewers. Washings must be prevented from entering surface water drains.

**6.3. Methods and material for containment and cleaning up**

**Methods for containment** Not applicable.

**Methods for cleaning up** Not applicable

**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.

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

**8.1. Control parameters**

**Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 1.25 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Paraffin wax 8002-74-2	-	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	-
Silicon Dioxide (amorphous) 7631-86-9	TWA 0.1 mg/m <sup>3</sup> respirable fraction	TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup>	-	-	TWA: 4 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m <sup>3</sup>	-	-	TWA: 6 mg/m <sup>3</sup>
Paraffin wax 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 (amorphous) 7631-86-9	-	-	TWA: 0.75 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	-
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Titanium dioxide 13463-67-7	TWA: 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>
Paraffin wax 8002-74-2	-	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>
Silicon Dioxide (amorphous) 7631-86-9	TWA: 4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>	-	TWA: 1.5 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup>

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

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

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**8.2. Exposure controls**

<b>Appropriate engineering controls</b>	Good general ventilation should be sufficient under normal use.
<b>Personal protective equipment</b>	Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:
<b>Eye/face protection</b>	Safety goggles.
<b>Hand protection</b>	Protective gloves.
<b>Skin and body protection</b>	Not normally required
<b>Respiratory protection</b>	No special protective equipment required.
<b>Environmental exposure controls</b>	Not normally required.

**Section 9: Physical and chemical properties**

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

<b>Appearance</b>	
Physical state	film
Color	white
<b>Odor</b>	Slight wax odor
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No information available	None known
Flammability (solid, gas)	No information available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	Not applicable	None known
Vapor density	Not applicable	None known
Relative density	No data available	None known
Water solubility	negligible	
Solubility(ies)	No information available	
Partition coefficient	No information available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No information available	
Kinematic viscosity	Not applicable	None known
Dynamic viscosity	No data available	None known
Explosive properties	Not applicable	

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**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**

None.

**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**

**Product Information**

**Inhalation** No information available

**Eye contact** No information available

**Skin contact:** No information available

**Ingestion** No information available

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

**ATEmix (oral)** 8,517.60 mg/kg  
**ATEmix (dermal)** 3,842.70 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

**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



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## 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)	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

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

Dispose in accordance with federal, state and local regulations.

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## 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

## 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

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**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-335S	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

**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.  
SDS sections updated 2 , 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).**