

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]

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

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.

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

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, CO₂, 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

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

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 13463-67-7	-	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Paraffin wax 8002-74-2	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	-
Silicon Dioxide (amorphous) 7631-86-9	-	TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³	-	-	TWA: 4 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m ³	-	-	TWA: 6 mg/m ³
Paraffin wax 8002-74-2	-	TWA: 2 mg/m ³	-	TWA: 1 mg/m ³	TWA: 2 mg/m ³
Silicon Dioxide (amorphous) 7631-86-9	-	-	-	TWA: 5 mg/m ³	-

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

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

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (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

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

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 information available	None known
Water solubility	negligible	
Solubility(ies)	No information available	
Partition coefficient	No information available	None known
Autoignition temperature	No information available	None known
Decomposition temperature	No information available	
Kinematic viscosity	Not applicable	None known
Dynamic viscosity	Not applicable	None known
Explosive properties	Not applicable	No information available
Oxidizing properties	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 (CO₂), Nitrogen oxides (NO_x)

Section 11: Toxicological information

11.1. Information on toxicological effects

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

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.

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

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

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

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

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

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

Revision Date: 28-Jul-2020

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Safety data sheet number: 5VA926-M5-1

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 28-Jul-2020

Issuing Date 08-Nov-2010

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).