

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

Revision Date: 15-Nov-2018

Issuing Date: 08-Nov-2010

Revision Number: 4

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

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

(Australia)
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
Paraffin wax	8002-74-2	232-315-6	-	<=10	Not classified	No data available
Carbon Black	1333-86-4	215-609-9 435-640-3	-	2-9	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
Organic filler	**	-	-	**	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.
- 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.

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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.

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.

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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 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.

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:

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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 information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
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 information available	
Water solubility	negligible	
Solubility(ies)	No information available	
Partition coefficient	No data available	
Autoignition temperature	No information available	
Decomposition temperature	Not determined	
Kinematic viscosity	No information available	
Dynamic viscosity	No information 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

Section 10: Stability and reactivity

10.1. Reactivity

No information available.

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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:	May be harmful in contact with skin
Ingestion	No information available

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

ATEmix (oral)	7,359.10 mg/kg
ATEmix (dermal)	3,291.80 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 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

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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 81 % 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.

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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	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

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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

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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
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

Revision Date 01-Apr-2019

Issuing Date 08-Nov-2010

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.