

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

Revision Date: 26-Mar-2021

Issuing Date: 08-Nov-2010

Revision Number: 10

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)

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 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]

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
Paraffin wax	8002-74-2	232-315-6	-	<=10	-	Not classified	Not applicable
Carbon Black	1333-86-4	215-609-9 435-640-3	-	2-9	-	Not classified	01-2119384822-32-XXXX
Wax	**	-	-	**	-	Not classified	Not applicable
Resin	**	**	-	**	-	Not classified	Not applicable
Polyethylene terephthalate film	**	-	-	**	-	Not classified	Not applicable
Organic filler	**	-	-	**	-	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.

Eye contact In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical advice/attention.

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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, 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 Thermal decomposition can lead to release of irritating and toxic gases and vapors Carbon monoxide , Carbon dioxide (CO₂) , Nitrogen oxides (NOx) , 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.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment.

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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.

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 mg/m ³	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3.5 mg/m ³

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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 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 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 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	

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Lower flammability limit:	No data available	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
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 data available	
Dynamic viscosity	No information available	
Explosive properties	No information available	No information available
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 dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x)

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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

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

ATEmix (oral)	7,359.10 mg/kg
ATEmix (dermal)	3,603.60 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)

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 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.

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.

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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

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity

Contains 81 % of components with unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Carbon Black	-	1000:96 h Brachydanio rerio mg/L LC50	-	-

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. 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-111	TZe-121	TZe-131	TZe-131S	TZe-141
TZe-151	TZe-161	TZe-211	TZe-221	TZe-231
TZe-231S	TZe-241	TZe-251	TZe-261	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-621	TZe-631	TZe-631S	TZe-641
TZe-651	TZe-661	TZe-721	TZe-731	TZe-741
TZe-751	TZe-761	TZe-AF131	TZe-AF231	TZe-B31
TZe-B41	TZe-B51	TZe-B61	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-FX241	TZe-FX251	TZe-FX261
TZe-FX431	TZe-FX441	TZe-FX451	TZe-FX551	TZe-FX611
TZe-FX621	TZe-FX631	TZe-FX641	TZe-FX651	TZe-FX661
TZe-FX731	TZe-FX741	TZe-FX751	TZe-GB31	TZe-GW31
TZe-HC31	TZe-HP31	TZe-HW31	TZe-HY31	TZe-J231
TZe-J241	TZe-KA31	TZe-KG31	TZe-LG31	TZe-LP31
TZe-LW31	TZe-M231	TZe-M231S	TZe-M251	TZe-M261
TZe-M31	TZe-M31S	TZe-M51	TZe-M851	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-MQ531
TZe-MQ551	TZe-MQ851	TZe-MQE31	TZe-MQE51	TZe-MQF31
TZe-MQF51	TZe-MQH51	TZe-MQH61	TZe-MT3107	TZe-MT3108
TZe-MT3115	TZe-MT3121	TZe-MT3122	TZe-MT3123	TZe-MV31
TZe-MW31	TZe-PG31	TZe-PR831	TZe-PR851	TZe-PW31
TZe-RY31	TZe-S121	TZe-S131	TZe-S141	TZe-S151
TZe-S211	TZe-S221	TZe-S231	TZe-S241	TZe-S251
TZe-S261	TZe-S621	TZe-S631	TZe-S641	TZe-S651
TZe-S661	TZe-S941	TZe-S951	TZe-S961	TZe-SE4
TZe-SE5	TZe-SG31	TZe-SL251	TZe-SL261	TZe-SL651
TZe-SL661	TZe-SM941	TZe-SM951	TZe-SM961	TZe-SW31
TZe-UB31	TZe-UP31	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

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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
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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Revision Note

Applicable model number has been updated.

SDS sections updated : 3

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

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