

Product Name: TZe cassette ink ribbon (Black)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC1

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

### **1.1. Product identifier**

**Product Name** TZe cassette ink ribbon (Black)

**Product Form** Mixture

**Safety data sheet number** 5VA926-MC1

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

**Relevant identified uses** This product is a black ink ribbon in a TZe ribbon tape cassette used for P-touch label writer 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]

### **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
Polyethylene terephthalate film	**	-	-	70-76	Not classified	Not applicable
Synthetic resin	**	-	-	7-11	Not classified	Not applicable
Paraffin wax	8002-74-2	232-315-6	-	4-8	Not classified	Registered
Carnauba wax	8015-86-9	232-399-4	-	4-8	Not classified	Registered
Carbon Black	1333-86-4	215-609-9 435-640-3	-	2-6	Not classified	01-2119384822-32-XXXX
Extender Pigment	**	-	-	1-3	Not classified	Registered
Silicon dioxide (amorphous)	**	-	-	< 0.3	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**

<b>General advice</b>	If symptoms persist, call a physician.
<b>Inhalation</b>	Not applicable.
<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.

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**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

**Hazardous combustion products** 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.

**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.

**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.

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**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)** This product is a black ink ribbon in a TZe ribbon tape cassette used for P-touch label writer 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 <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	-
Carbon Black 1333-86-4	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
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>
Carbon Black 1333-86-4	-	TWA: 3.5 mg/m <sup>3</sup>	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
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>
Carbon Black 1333-86-4	-	-	TWA: 4.0 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 15 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	black
<b>Odor</b>	Slight wax odor
<b>Odor threshold</b>	No information available

Property	Values	Remarks • Method
pH	No data available	
Melting point / freezing point	> 250 °C ( film )	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	Not applicable	
Flammability (solid, gas)	No data available	None known,
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
Relative density	1.4	
Water solubility	negligible	
Solubility(ies)	No information available	
Partition coefficient	No data available	
Autoignition temperature	> > 480 °C ( film )	
Decomposition temperature	No information available	
Kinematic viscosity	Not applicable	
Dynamic viscosity	No information available	
Explosive properties	Not explosive	
Oxidizing properties	No information available	

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**9.2. Other information**

No information available

**Section 10: Stability and reactivity**

**10.1. Reactivity**

None.

**10.2. Chemical stability**

No information available.

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

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Product Information**

<b>Inhalation</b>	No information available
<b>Eye contact</b>	No information available
<b>Skin contact:</b>	No information available
<b>Ingestion</b>	No information available

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

<b>ATEmix (oral)</b>	6,857.40 mg/kg
<b>ATEmix (dermal)</b>	3,336.70 mg/kg

**Skin corrosion/irritation** No information available

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<b>Serious eye damage/eye irritation</b>	No information available
<b>Respiratory or skin sensitization</b>	No information available
<b>Germ cell mutagenicity</b>	No information available
<b>Carcinogenicity</b>	<p>Printing inks: IARC Classification: Group 3 (Non-classified Human Carcinogen)</p> <p>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.</p> <p>Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA</p>
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available
<b>Aspiration hazard</b>	Not classified.

## **Section 12: Ecological information**

### **12.1. Toxicity**

#### **Ecotoxicity**

Contains 0 % 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	-	5600: 24 h Daphnia magna mg/L EC50

### **12.2. Persistence and degradability**

No information available.

### **12.3. Bioaccumulative potential**

There is no data for this product.

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**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 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
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None



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**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-R231      TZe-R251      TZe-R931      TZe-R951

**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**

Importer information has been changed.  
Safety data sheet number changed.  
SDS sections updated

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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 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.