

Product Name: TZe cassette ink ribbon (Gold)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC4

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

### **1.1. Product identifier**

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

**Product Form** Mixture

**Safety data sheet number** 5VA926-MC4

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

**Relevant identified uses** This product is a gold 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]

Product Name: TZe cassette ink ribbon (Gold)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC4

**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 nature**

**Ink on substrate film (Mixture) Article**

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	**	-	-	74 - 78	Not classified	Not applicable
Synthetic resin	**	-	-	8 - 12	Not classified	Not applicable
Paraffin wax	8002-74-2	232-315-6	-	6<, <10	Not classified	Registered
Colorant	**	**	-	1 - 3	Not classified	Registered
Carnauba wax	8015-86-9	232-399-4	-	1 - 3	Not classified	Registered
Aluminum	7429-90-5	231-072-3	013-002-00-1 013-001-00-6	1 - 3	Flam. Sol. 1 (H228) Water-react. 2 (H261)	Registered
Extender Pigment	**	-	-	0.1 - 1	Not classified	Registered
Silicon dioxide (amorphous)	**	-	-	< 0.3	Not classified	No data available

\*\* CONFIDENTIAL

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.

**Skin contact:** Wash off immediately with soap and plenty of water.

Product Name: TZe cassette ink ribbon (Gold)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC4

**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, 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 (NOx) , Oxides of sulfur

**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.

**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

Product Name: TZe cassette ink ribbon (Gold)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC4

Prevention of secondary hazards Not applicable.

**6.4. Reference to other sections**

Reference to other sections SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

**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 gold 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>	-
Aluminum 7429-90-5	-	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: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 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>
Aluminum 7429-90-5	-	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	-	TWA: 1.5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 2 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>
Aluminum 7429-90-5	TWA: 10 mg/m <sup>3</sup> STEL 20 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup> TWA: 1.2 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>

**Biological occupational exposure limits**

Product Name: TZe cassette ink ribbon (Gold)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC4

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Aluminum 7429-90-5	-	60	-	-	-

**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.

**Eye/face protection** If there is a risk of contact: Safety goggles.

**Hand protection** If there is a risk of contact: 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** Gold  
**Odor** Slight wax odor  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	> 250 °C ( film )	None known
Boiling point / boiling range	No data available	None known
Flash point	>150	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	No data available	None known
Relative density	1.4	None known
Water solubility	negligible	None known
Solubility(ies)	No information available	None known
Partition coefficient	No information available	None known

Product Name: TZe cassette ink ribbon (Gold)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC4

<b>Autoignition temperature</b>	> > 480 °C ( film )	None known
<b>Decomposition temperature</b>	Not determined	None known
<b>Kinematic viscosity</b>	Not applicable	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	Not explosive	None known
<b>Oxidizing properties</b>	No information available	

**9.2. Other information**

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**

<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

Product Name: TZe cassette ink ribbon (Gold)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC4

---

<b>Skin corrosion/irritation</b>	No information available
<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>	Printing inks: IARC Classification: Group 3 (Non-classified Human Carcinogen)  Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA
<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** The environmental impact of this product has not been fully investigated

Contains 0 % of components with unknown hazards to the aquatic environment

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

No information available.

### **12.3. Bioaccumulative potential**

There is no data for this product.

### **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.

Product Name: TZe cassette ink ribbon (Gold)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC4

## 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

### 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.



Product Name: TZe cassette ink ribbon (Gold)

Revision Date: 01-Dec-2020

Issuing Date: 21-Mar-2019

Revision Number: 3

Safety data sheet number: 5VA926-MC4

\* 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-R234	TZe-R254	TZe-R334	TZe-R354	TZe-RE34
TZe-RE54	TZe-RL34	TZe-RL54	TZe-RM34	TZe-RM54
TZe-RN34	TZe-RN54	TZe-RW34	TZe-RW54	

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

H228 - Flammable solid

H261 - In contact with water releases flammable gases

**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-Dec-2020

Issuing Date 21-Mar-2019

**Revision Note**

Importer information has been changed.

Safety data sheet number changed.

SDS sections 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).