Product name: TZe cassette, TZ cassette
With regard to the model number, please find attached the list of the model numbers.

Use of Product: These products are TZe cassette or TZ cassette for Brother Industries, Ltd. P-touch.

The above product consists of the following major parts and components. Also please find attached the SDS.

TZe cassette and TZ cassette are ‘Article’ and we have voluntarily made the SDS.

<table>
<thead>
<tr>
<th>Name of part/Component</th>
<th>Material</th>
<th>SDS No.</th>
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<tr>
<td>1) Cassette case upper</td>
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<td>5) Ribbon clutch spring</td>
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<td>6) Ribbon clutch spring holder</td>
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<td>11) Tape roller</td>
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<td>12) Sensor parts</td>
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### Model Number List

The model numbers to be covered with PSIS No. 5VA926-P1-EUUSOTHER are as below.

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SAFETY DATA SHEET

Product name: TZe cassette ribbon, TZ cassette ribbon
(Please refer to PSIS to find the applicable models)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: TZe cassette ribbon, TZ cassette ribbon

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

Relevant Identified Use(s): These products are ink ribbons for Brother Industries, Ltd. TZe cassette ribbon, TZ cassette ribbon.

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 (USA): Brother International Corporation
200 Crossing Boulevard, Bridgewater, NJ 08807, USA
Telephone (for information): +1-800-284-4320

Importer (Canada): Brother International Corporation (Canada) Ltd.
1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada
Telephone (for information): +1-514-685-0600

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

Importer (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

E-mail Address: sds.info@brother.co.jp

1.4 Emergency telephone number

Emergency Telephone (24 hours): CHEMTREC
+1-703-527-3887 (International)
+1-800-424-9300 (North America)

For France only:
Antipoison Center telephone number: ORFILA +33-1-45-425-959
## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Not classified as hazardous

**Classification according to Directive 1999/45/EC**

Not classified as hazardous

**Australia Classification**

Not classified as hazardous according to the criteria of NOHSC

### 2.2 Label elements

**Labelling according to Regulation (EC) No. 1272/2008**

**Hazard pictograms**

None

**Signal Word**

None

**Hazard Statements**

None

**Precautionary statements**

None

### 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

3.2 Mixtures

Description of the mixture: Ink on substrate film (Mixture).

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<th>EC-No</th>
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<th>Classification (EU Reg. 1272/2008)</th>
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<th>White w/w%</th>
<th>Red w/w%</th>
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<th>Gold w/w%</th>
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<td>**</td>
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<td>Not classified</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>&lt;=4</td>
</tr>
<tr>
<td>Colorant</td>
<td>**</td>
<td>**</td>
<td>Not classified</td>
<td>Not classified</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>&lt;=9</td>
</tr>
<tr>
<td>Resin</td>
<td>**</td>
<td>**</td>
<td>Not classified</td>
<td>Not classified</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Wax</td>
<td>**</td>
<td>**</td>
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<td>Not classified</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Additive</td>
<td>**</td>
<td>**</td>
<td>Not classified</td>
<td>Not classified</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Synthetic resin</td>
<td>**</td>
<td>**</td>
<td>Not classified</td>
<td>Not classified</td>
<td>**</td>
<td>-</td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Organic Filter</td>
<td>**</td>
<td>**</td>
<td>Not classified</td>
<td>Not classified</td>
<td>**</td>
<td>-</td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Dispersant</td>
<td>**</td>
<td>**</td>
<td>Not classified</td>
<td>Not classified</td>
<td>**</td>
<td>-</td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Brass powder</td>
<td>**</td>
<td>**</td>
<td>Not classified</td>
<td>Not classified</td>
<td>-</td>
<td>-</td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Polyethylene terephthalate film</td>
<td>**</td>
<td>**</td>
<td>Not classified</td>
<td>Not classified</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
</tbody>
</table>

For the full text of R-phrases and H-Statements see Section 16

** CONFIDENTIAL

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: If symptoms persist, obtain medical attention.

Inhalation: Not applicable.

Skin contact: Wash affected skin with plenty of water or soap and water.

Eye contact: Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.

Ingestion: Obtain 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

No specific effects and/or symptoms have been reported or known

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable Extinguishing Media: Extinguish preferably with dry chemical, carbon dioxide, water mist, foam.
- Unsuitable Extinguishing Media: None.

5.2 Special hazards arising from the substance or mixture

No information available

5.3 Advice for firefighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not normally required.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Not applicable

6.4 Reference to other sections

For personal protection: See section 8.
For disposal considerations: See section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from oxidizing agents.

7.3 Specific end use(s)

These products are ink ribbons for Brother Industries, Ltd. TZe cassette ribbon, TZ cassette ribbon.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carbon Black 1333-86-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TLV</td>
<td>TWA: 3 mg/m³ inhalable fraction</td>
</tr>
<tr>
<td>OSHA PEL</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
<tr>
<td>European Union</td>
<td></td>
</tr>
<tr>
<td>The United Kingdom</td>
<td></td>
</tr>
<tr>
<td>France</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
<tr>
<td>Spain</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
<tr>
<td>Germany</td>
<td>Carc</td>
</tr>
<tr>
<td>Portugal</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
<tr>
<td>Finland</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
<tr>
<td>STEL: 7 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Finland</td>
<td>STEL: 7 mg/m³</td>
</tr>
<tr>
<td>Denmark</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
<tr>
<td>Poland</td>
<td>TWA: 4.0 mg/m³</td>
</tr>
</tbody>
</table>
## SAFETY DATA SHEET

**Product name:** TZe cassette ribbon, TZ cassette ribbon  
(Please refer to PSIS to find the applicable models)

**Version:** 6  
**SDS No:** 5VA926-M1-EUUSOTHER

### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Paraffin wax 8002-74-2</th>
<th>Titanium dioxide 13463-67-7</th>
<th>Silicon Dioxide (amorphous) 7631-86-9</th>
</tr>
</thead>
</table>
| **Norway**    | TWA: 3.5 mg/m³  
STEL: 7 mg/m³ | TWA: 10 mg/m³  
STEL: 30 mg/m³  
TWA: 10 mg/m³  
STEL: 12 mg/m³  
TWA: 10 mg/m³  
STEL: 6 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂  
STEL: 18 mg/m³  
TWA: 7.2 mg/m³  
STEL: 10 mg/m³  
TWA: 4 mg/m³  
STEL: 3 mg/m³  
TWA: 1.5 mg/m³  
STEL: 3 mg/m³ |
| **Ireland**   | TWA: 3.5 mg/m³  
STEL: 7 mg/m³ | TWA: 10 mg/m³  
STEL: 30 mg/m³  
TWA: 10 mg/m³  
STEL: 12 mg/m³  
TWA: 10 mg/m³  
STEL: 6 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂  
STEL: 18 mg/m³  
TWA: 7.2 mg/m³  
STEL: 10 mg/m³  
TWA: 4 mg/m³  
STEL: 3 mg/m³  
TWA: 1.5 mg/m³  
STEL: 3 mg/m³ |
| **Chemical Name** | Paraffin wax 8002-74-2 | Titanium dioxide 13463-67-7 | Silicon Dioxide (amorphous) 7631-86-9 |
| **ACGIH TLV** | | | |
| TWA: 2 mg/m³ fume | | | |
| **OSHA PEL** | | | |
| TWA: 10 mg/m³ total dust | | | |
| **European Union** | | | |
| | | | |
| **The United Kingdom** | | | |
| | | | |
| **France** | TWA: 2 mg/m³ | TWA: 10 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Spain** | TWA: 2 mg/m³ | TWA: 10 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Portugal** | TWA: 2 mg/m³ | TWA: 10 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Finland** | TWA: 1 mg/m³ | TWA: 3 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Denmark** | TWA: 2 mg/m³ | TWA: 4 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Switzerland** | TWA: 2 mg/m³ | TWA: 4 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Poland** | TWA: 2 mg/m³ | TWA: 4 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Norway** | TWA: 2 mg/m³  
STEL: 4 mg/m³ | TWA: 2 mg/m³  
STEL: 6 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Ireland** | TWA: 2 mg/m³  
STEL: 6 mg/m³ | TWA: 2 mg/m³  
STEL: 6 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Chemical Name** | Paraffin wax 8002-74-2 | Titanium dioxide 13463-67-7 | Silicon Dioxide (amorphous) 7631-86-9 |
| **ACGIH TLV** | | | |
| TWA: 2 mg/m³ fume | | | |
| **OSHA PEL** | | | |
| TWA: 10 mg/m³ total dust | | | |
| **European Union** | | | |
| | | | |
| **The United Kingdom** | | | |
| | | | |
| **France** | TWA: 2 mg/m³ | TWA: 10 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Spain** | TWA: 2 mg/m³ | TWA: 10 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Portugal** | TWA: 2 mg/m³ | TWA: 10 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Finland** | TWA: 1 mg/m³ | TWA: 3 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Denmark** | TWA: 2 mg/m³ | TWA: 4 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Switzerland** | TWA: 2 mg/m³ | TWA: 4 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Poland** | TWA: 2 mg/m³ | TWA: 4 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Norway** | TWA: 2 mg/m³  
STEL: 4 mg/m³ | TWA: 2 mg/m³  
STEL: 6 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
| **Ireland** | TWA: 2 mg/m³  
STEL: 6 mg/m³ | TWA: 2 mg/m³  
STEL: 6 mg/m³ | TWA: 20 mppcf  
80(mg/m³)³%SiO₂ |
### 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 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Physical state: Film</td>
</tr>
<tr>
<td></td>
<td>Color: Black, White, Red, Blue, Gold.</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight wax's odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable</td>
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<tr>
<td>Initial boiling point and boiling range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
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<tr>
<td>Relative density</td>
<td>No information available</td>
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<td>Solubility(ies)</td>
<td>Negligible (water)</td>
</tr>
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<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
</tr>
</tbody>
</table>

### 9.2 Other information

No information available.

**SECTION 10: Stability and reactivity**

### 10.1 Reactivity
No information available.

### 10.2 Chemical stability
Stable.

### 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
Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No information available.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No information available.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No information available.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation

No information available.

Serious eye damage/irritation

No information available.

Respiratory or skin sensitisation

No information available.

Mutagenicity

No information available.

Carcinogenicity

Printing inks: IARC Classification: Group 3 (Non-classified Human Carcinogen)

Titanium dioxide: IARC Classification: Group 2B (Possible 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.
## SECTION 12: Ecological information

### 12.1 Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicty to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black 1333-86-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silicon Dioxide (amorphous) 7631-86-9</td>
<td>EC₅₀: 440 mg/L 72 h (Pseudokirchneriella subcapitata)</td>
<td>LC₅₀: 5000 mg/L 96 h static (Brachydanio rerio)</td>
<td>EC₅₀: &gt;5600 mg/L 24 h (Daphnia magna)</td>
</tr>
<tr>
<td>Copper 7440-50-8</td>
<td>EC₅₀: 0.0426 - 0.0535 mg/L 72 h static (Pseudokirchneriella subcapitata)</td>
<td>LC₅₀: 0.0068 - 0.0156 mg/L 96 h (Pimephales promelas)</td>
<td>EC₅₀: 7600 mg/L 48 h (Ceriodaphnia dubia)</td>
</tr>
<tr>
<td></td>
<td>EC₅₀: 0.031 - 0.054 mg/L 96 h static (Pseudokirchneriella subcapitata)</td>
<td>LC₅₀: 0.3 mg/L 96 h static (Pimephales promelas)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC₅₀: 0.2 mg/L 96 h flow-through (Pimephales promelas)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC₅₀: 0.052 mg/L 96 h flow-through (Oncorhynchus mykiss)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC₅₀: 1.25 mg/L 96 h static (Lepomis macrochirus)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC₅₀: 0.3 mg/L 96 h semi-static (Cyprinus carpio)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC₅₀: 0.8 mg/L 96 h static (Cyprinus carpio)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC₅₀: 0.112 mg/L 96 h flow-through (Poecilia reticulata)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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 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 of in accordance with Federal, State, and local regulations.
SECTION 14: Transport information

Not classified according to the United Nations “Recommendations on the Transport of Dangerous Goods”

14.1 UN Number
None

14.2 UN proper shipping name
None

14.3 Transport hazard class(es)
None

14.4 Packing Group
None

14.5 Environmental hazards
None

14.6 Special precautions for user
None

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU: Not classified as dangerous for supply/use. (1999/45/EC)
USA: All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules.
Canada: WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment
No.
SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

None

Full text of H-Statements referred to under sections 2 and 3

None

Additional information

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).

Revision Note

Updated for compliance with EU Regulations 453/2010 and 172/2008 (CLP).

References:

U.S. 29CFR Part 1910
ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization
NTP 11th Report on Carcinogens

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists
IARC: International Agency for Research on Cancer
NOHSC: National Occupational Health and Safety Commission (Australia)
NTP: National Toxicology Program (US)
OSHA: Occupational Safety and Health Administration (US)
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value (ACGIH)
TSCA: Toxic Substances Control Act (US)
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Material Information System (Canada)
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: TZe cassette tape, TZ cassette tape

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

Relevant Identified Use(s): These products are tapes for Brother Industries, Ltd. TZe cassette tape, TZ cassette tape

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 (USA): Brother International Corporation
200 Crossing Boulevard, Bridgewater, NJ 08807, USA
Telephone (for information): +1-800-264-4329

Importer (Canada): Brother International Corporation (Canada) Ltd.
1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada
Telephone (for information): +1-514-685-0600

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

Importer (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

E-mail Address: sds.info@brother.co.jp

1.4 Emergency telephone number

Emergency Telephone
(24 hours):
CHEMTREC
+1-703-527-3887 (International)
+1-800-424-9300 (North America)

For France only:
Antipoison Center telephone number: ORFILA +33-1-45-425-959
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Not classified as hazardous

Classification according to Directive 1999/45/EC
Not classified as hazardous

Australia Classification
Not classified as hazardous according to the criteria of NOHSC

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms
None

Signal Word
None

Hazard Statements
None

Precautionary statements
None

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

3.2 Mixtures

Description of the mixture: TZe cassette tape (Article), TZ cassette tape (Article).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>EC-No</th>
<th>w/w%</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (EU Reg. 1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester film</td>
<td>**</td>
<td>**</td>
<td>-</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
<tr>
<td>Ink</td>
<td>**</td>
<td>**</td>
<td>-</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acrylic adhesive</td>
<td>**</td>
<td>**</td>
<td>-</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
<tr>
<td>Liner</td>
<td>**</td>
<td>**</td>
<td>-</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

For the full text of R-phrases and H-Statements see Section 16

** CONFIDENTIAL
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
If symptoms persist, obtain medical attention.

Inhalation
Not applicable.

Skin contact
Wash affected skin with plenty of water or soap and water.

Eye contact
Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.

Ingestion
Obtain 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
No specific effects and/or symptoms have been reported or known

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media
Extinguish preferably with dry chemical, carbon dioxide, water, foam.

Unsuitable Extinguishing Media
None.

5.2 Special hazards arising from the substance or mixture
No information available

5.3 Advice for firefighters
A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Not normally required.

6.2 Environmental precautions
Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up
Not applicable

6.4 Reference to other sections
For personal protection: See section 8.
For disposal considerations: See section 13.
SECTION 7: Handling and storage

7.1 Precautions for safe handling
No special requirements.

7.2 Conditions for safe storage, including any incompatibilities
Keep away from oxidizing agents.

7.3 Specific end use(s)
These products are tapes for Brother Industries, Ltd. TZe cassette tape, TZ cassette tape.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters
Contains no substances with occupational exposure limit values.

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 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Tape rolled</td>
</tr>
<tr>
<td>Color</td>
<td>Various colors</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble (water)</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
</tr>
</tbody>
</table>

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity                                No information available.

10.2 Chemical stability                        Stable.

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         Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Effect</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No information available.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No information available.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No information available.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: No information available.

Serious eye damage/irritation: No information available.

Respiratory or skin sensitisation: No information available.

Mutagenicity: No information available.

Carcinogenicity: Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA.

SECTION 12: Ecological information

12.1 Toxicity: No information available.

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 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

SECTION 14: Transport information

Not classified according to the United Nations “Recommendations on the Transport of Dangerous Goods”

14.1 UN Number
None

14.2 UN proper shipping name
None

14.3 Transport hazard class(es)
None

14.4 Packing Group
None

14.5 Environmental hazards
None

14.6 Special precautions for user
None

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU: Not classified as dangerous for supply/use. (1999/45/EC)
USA: All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules.
Canada: WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment
No.
# SECTION 16: Other information

<table>
<thead>
<tr>
<th>Full text of R-phrases referred to under sections 2 and 3</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full text of H-statements referred to under sections 2 and 3</td>
<td>None</td>
</tr>
<tr>
<td>Additional information</td>
<td>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).</td>
</tr>
<tr>
<td>Revision Note</td>
<td>Updated for compliance with EU Regulations 453/2010 and 172/2008 (CLP).</td>
</tr>
</tbody>
</table>
ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices  
IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization  
NTP 11th Report on Carcinogens |
| Abbreviations: | ACGIH: American Conference of Governmental Industrial Hygienists  
IARC: International Agency for Research on Cancer  
NOHSC: National Occupational Health and Safety Commission (Australia)  
NTP: National Toxicology Program (US)  
OSHA: Occupational Safety and Health Administration (US)  
PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Value (ACGIH)  
TSCA: Toxic Substances Control Act (US)  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Material Information System (Canada) |