

Brother Industries, Ltd.
15-1 Naeshiro-cho, Mizuho-ku,
Nagoya 467-8561, Japan
Telephone (for information): +81-52-824-2735

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

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

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

TX cassette is an 'Article' and we have voluntarily made the SDS.

| | Name of part/Component | Material | SDS No. |
|-----|----------------------------|----------|---------------------|
| 1) | Cassette case upper | ABS | N/A |
| 2) | Cassette case lower | ABS | N/A |
| 3) | Film tape | PET | N/A |
| 4) | Spacer | PP | N/A |
| 5) | Torsion spring | SUS | N/A |
| 6) | Ribbon back tension spring | SWPB | N/A |
| 7) | Ribbon wind spool | ABS | N/A |
| 8) | Spool spring | SWPA | N/A |
| 9) | Tape feed roller | ABS | N/A |
| 10) | Adhesive tape roller | POM | N/A |
| 11) | Sensor parts | ABS | N/A |
| 12) | Ribbon roller bearing | ABS | N/A |
| 13) | Ribbon guide lever | ABS | N/A |
| 14) | Color indication | Paper | N/A |
| 15) | Ribbon wind stopper | Paper | N/A |
| 16) | TX cassette ribbon | -- | 5V1972-M1-EUUSOTHER |
| 17) | TX cassette tape | -- | 5V1972-M2-EUUSOTHER |
| 18) | Spool | AS | N/A |

Model Number List

The model numbers to be covered with PSIS No. 5V1972-P1-EUUSOTHER are as below.

| | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|
| TX-031 | TX-0311 | TX-0511 | TX-111 | TX-1111 | TX-121 | TX-1211 |
| TX-131 | TX-1311 | TX-131S | TX-132 | TX-1321 | TX-133 | TX-1331 |
| TX-141 | TX-1411 | TX-141S | TX-151 | TX-1511 | TX-151S | TX-152 |
| TX-1521 | TX-153 | TX-1531 | TX-154 | TX-1541 | TX-211 | TX-2111 |
| TX-211S | TX-221 | TX-2211 | TX-231 | TX-2311 | TX-231F | TX-231S |
| TX-232 | TX-2321 | TX-232F | TX-233 | TX-2331 | TX-233F | TX-241 |
| TX-2411 | TX-241S | TX-242 | TX-243 | TX-251 | TX-2511 | TX-251S |
| TX-252 | TX-2521 | TX-253 | TX-2531 | TX-334 | TX-3341 | TX-344 |
| TX-3441 | TX-354 | TX-3541 | TX-411 | TX-421 | TX-431 | TX-4311 |
| TX-441 | TX-451 | TX-4511 | TX-511 | TX-521 | TX-531 | TX-5311 |
| TX-541 | TX-551 | TX-5511 | TX-611 | TX-621 | TX-631 | TX-6311 |
| TX-641 | TX-651 | TX-6511 | TX-651S | TX-711 | TX-721 | TX-731 |
| TX-7311 | TX-741 | TX-751 | TX-7511 | TX-A31 | TX-A311 | TX-A51 |
| TX-A511 | TX-B31 | TX-B311 | TX-B51 | TX-B511 | TX-C31 | TX-C51 |
| TX-D31 | TX-D51 | TX-M11 | TX-M21 | TX-M51 | TX-SE5 | TX-WB51 |
| TX-WS51 | TX-WT51 | | | | | |

Product name: TX cassette ribbon
(Please refer to PSIS to find the applicable models)

Issuing Date: 31-January-2000
Revision Date: 18-September-2015
Version: 10
SDS No: 5V1972-M1-EUUSOTHER

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

1.1 Product identifier

Product name TX 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. TX cassette.

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): +1-877-276-8437

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

Product name: TX cassette ribbon
(Please refer to PSIS to find the applicable models)

Issuing Date: 31-January-2000
Revision Date: 18-September-2015
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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)

| Chemical Name | CAS-No | EC-No | Classification (EU Reg. 1272/2008) | Black w/w% | Red w/w% | Blue w/w% | Gold w/w% |
|---------------------------------|------------|-----------|------------------------------------|------------|----------|-----------|-----------|
| Carbon Black | 1333-86-4 | 215-609-9 | Not classified | 8 | - | - | - |
| Paraffin wax | 8002-74-2 | 232-315-6 | Not classified | 18 | 17 | 18 | 18 |
| Titanium dioxide | 13463-67-7 | 236-675-5 | Not classified | - | 3 | 2 | - |
| Copper | 7440-50-8 | 231-159-6 | Not classified | - | - | 6 | 21 |
| Colorant | ** | ** | Not classified | ** | ** | ** | ** |
| Resin | ** | ** | Not classified | ** | ** | ** | ** |
| Wax | ** | ** | Not classified | ** | ** | ** | ** |
| Additive | ** | ** | Not classified | ** | ** | ** | ** |
| Polyethylene terephthalate film | ** | ** | Not classified | ** | ** | ** | ** |

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.

Product name: TX cassette ribbon
(Please refer to PSIS to find the applicable models)

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Revision Date: 18-September-2015
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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. TX cassette.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

| Chemical Name | Carbon Black 1333-86-4 |
|--------------------|---|
| ACGIH TLV | TWA: 3 mg/m ³ inhalable fraction |
| OSHA PEL | TWA: 3.5 mg/m ³ |
| European Union | - |
| The United Kingdom | STEL: 7 mg/m ³ TWA: 3.5 mg/m ³ |
| France | TWA: 3.5 mg/m ³ |
| Spain | TWA: 3.5 mg/m ³ |
| Germany | Carc |
| Portugal | TWA: 3.5 mg/m ³ |
| Finland | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ |
| Denmark | TWA: 3.5 mg/m ³ |
| Poland | TWA: 4.0 mg/m ³ |
| Norway | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ |
| Ireland | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ |
| Chemical Name | Paraffin wax 8002-74-2 |
| ACGIH TLV | TWA: 2 mg/m ³ fume |
| OSHA PEL | - |
| European Union | - |
| The United Kingdom | STEL: 6 mg/m ³ TWA: 2 mg/m ³ |
| France | TWA: 2 mg/m ³ |
| Spain | TWA: 2 mg/m ³ |
| Portugal | TWA: 2 mg/m ³ |
| Finland | TWA: 1 mg/m ³ |
| Denmark | TWA: 2 mg/m ³ |
| Switzerland | TWA: 2 mg/m ³ |
| Poland | TWA: 2 mg/m ³ |
| Norway | TWA: 2 mg/m ³ STEL: 4 mg/m ³ |
| Ireland | TWA: 2 mg/m ³ STEL: 6 mg/m ³ |
| Chemical Name | Titanium dioxide 13463-67-7 |
| ACGIH TLV | TWA: 10 mg/m ³ |
| OSHA PEL | TWA: 15 mg/m ³ total dust |
| European Union | - |

Product name: TX cassette ribbon
(Please refer to PSIS to find the applicable models)

| | |
|---------------------------|--|
| The United Kingdom | STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ |
| France | TWA: 10 mg/m ³ |
| Spain | TWA: 10 mg/m ³ |
| Germany | Carc |
| Portugal | TWA: 10 mg/m ³ |
| Denmark | TWA: 6 mg/m ³ |
| Austria | STEL 10 mg/m ³ TWA: 5 mg/m ³ |
| Switzerland | TWA: 3 mg/m ³ |
| Poland | NDSch: 30 mg/m ³ TWA: 10.0 mg/m ³ TWA: 10 mg/m ³ |
| Norway | TWA: 5 mg/m ³ STEL: 10 mg/m ³ |
| Ireland | TWA: 10 mg/m ³ TWA: 4 mg/m ³ |
| Chemical Name | Copper 7440-50-8 |
| ACGIH TLV | TWA: 0.2 mg/m ³ fume TWA: 1 mg/m ³ Cu dust and mist |
| OSHA PEL | TWA: 1 mg/m ³ dusts and mists (as Cu) |
| European Union | - |
| The United Kingdom | STEL: 0.6 mg/m ³ STEL: 2 mg/m ³ TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ |
| France | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³ |
| Spain | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ |
| Germany | TWA: 0.1 mg/m ³ Ceiling / Peak: 0.2 mg/m ³ |
| Portugal | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ |
| The Netherlands | TWA: 0.1 mg/m ³ |
| Finland | TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ |
| Denmark | TWA: 1.0 mg/m ³ TWA: 0.1 mg/m ³ |
| Austria | STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ |
| Switzerland | STEL: 0.2 ppm TWA: 0.1 ppm |
| Poland | TWA: 0.2 mg/m ³ |
| Norway | TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ STEL: 0.3 mg/m ³ STEL: 3 mg/m ³ |
| Ireland | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³ |

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.

Product name: TX cassette ribbon
(Please refer to PSIS to find the applicable models)

| | |
|--------------------------|---|
| 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. Red. Blue. Gold. |
| Odor | Slight wax's odor |
| Odor Threshold | No information available |
| pH | Not applicable |
| Melting point/freezing point | Not applicable |
| Initial boiling point and boiling range | Not applicable |
| Flash Point | > 150 °C |
| Evaporation rate | No information available |
| Flammability (solid, gas) | No information available |
| Upper/lower flammability or explosive limits | No information available |
| Vapor pressure | Not applicable |
| Vapor density | Not applicable |
| Relative density | No information available |
| Solubility(ies) | Negligible (water) |
| Partition coefficient: n-octanol/water | No information available |
| Auto-ignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity | Not applicable |
| Explosive properties | Not applicable |
| Oxidizing properties | No information available |

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. |

Product name: TX cassette ribbon
(Please refer to PSIS to find the applicable models)

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| | |
|--------------|---------------------------|
| Inhalation | No information available. |
| Eye contact | No information available. |
| Skin contact | No information available. |
| Ingestion | No information available. |

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)

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.

Titanium dioxide: IARC Classification: Group 2B (Possibility carcinogenic to human)

Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA.

Product name: TX cassette ribbon
(Please refer to PSIS to find the applicable models)

SECTION 12: Ecological information

12.1 Toxicity

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|---------------------------|--|---|--|
| Carbon Black 1333-86-4 | | | EC ₅₀ : >5600 mg/L 24 h (Daphnia magna) |
| Copper 7440-50-8 | EC ₅₀ : 0.0426 - 0.0535 mg/L 72 h static (Pseudokirchneriella subcapitata) EC ₅₀ : 0.031 - 0.054 mg/L 96 h static (Pseudokirchneriella subcapitata) | LC ₅₀ : 0.0068 - 0.0156 mg/L 96 h (Pimephales promelas) LC ₅₀ : 0.3 mg/L 96 h static (Pimephales promelas) LC ₅₀ : 0.2 mg/L 96 h flow-through (Pimephales promelas) LC ₅₀ : 0.052 mg/L 96 h flow-through (Oncorhynchus mykiss) LC ₅₀ : 1.25 mg/L 96 h static (Lepomis macrochirus) LC ₅₀ : 0.3 mg/L 96 h semi-static (Cyprinus carpio) LC ₅₀ : 0.8 mg/L 96 h static (Cyprinus carpio) LC ₅₀ : 0.112 mg/L 96 h flow-through (Poecilia reticulata) | EC ₅₀ : 0.03 mg/L 48 h Static (Daphnia magna) |

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.

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(Please refer to PSIS to find the applicable models)

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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 | <p>EU: Not classified as dangerous for supply/use. (EC) No 1272/2008</p> <p>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.</p> <p>Canada: WHMIS: Not applicable. (Manufactured article)</p> |
| 15.2 Chemical Safety Assessment | No. |

Product name: TX cassette ribbon
(Please refer to PSIS to find the applicable models)

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SECTION 16: Other information

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 SECTION 1, 2, 3, 9, 11, 15, 16

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 of the Carcinogenic Risk of Chemicals to Humans World Health Organization
EU Directive 91/322/EEC and 2000/39/EC
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)

Product name: TX cassette tape
(Please refer to PSIS to find the applicable models)

Issuing Date: 31-January-2000
Revision Date: 10-November-2012
Version: 9
SDS No: 5V1972-M2-EUUSOTHER

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

1.1 Product identifier

Product name TX 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. TX cassette.

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): +1-800-284-4329

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

Product name: TX cassette tape
(Please refer to PSIS to find the applicable models)

Issuing Date: 31-January-2000
Revision Date: 10-November-2012
Version: 9
SDS No: 5V1972-M2-EUUSOTHER

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: TX cassette tape (Article).

| Chemical Name | CAS-No | EC-No | w/w% | Classification (67/548/EEC) | Classification (EU Reg. 1272/2008) |
|------------------|--------|-------|------|-----------------------------|------------------------------------|
| Polyester film | ** | ** | - | Not classified | Not classified |
| Ink | ** | ** | - | Not classified | Not classified |
| Acrylic adhesive | ** | ** | - | Not classified | Not classified |
| Liner | ** | ** | - | Not classified | Not classified |

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

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Product name: TX cassette tape
(Please refer to PSIS to find the applicable models)

Issuing Date: 31-January-2000
Revision Date: 10-November-2012
Version: 9
SDS No: 5V1972-M2-EUUSOTHER

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.

Product name: TX cassette tape
(Please refer to PSIS to find the applicable models)

Issuing Date: 31-January-2000
Revision Date: 10-November-2012
Version: 9
SDS No: 5V1972-M2-EUUSOTHER

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. TX cassette.

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.

Product name: TX cassette tape
(Please refer to PSIS to find the applicable models)

Issuing Date: 31-January-2000
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Version: 9
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

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. |

Product name: TX cassette tape
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| | |
|--------------|---------------------------|
| Inhalation | No information available. |
| Eye contact | No information available. |
| Skin contact | No information available. |
| Ingestion | No information available. |

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

13.1 Waste treatment methods Dispose of in accordance with Federal, State, and local regulations.

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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 | <p>EU: Not classified as dangerous for supply/use. (1999/45/EC)</p> <p>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.</p> <p>Canada: WHMIS: Not applicable. (Manufactured article)</p> |
| 15.2 Chemical Safety Assessment | No. |

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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 of the Carcinogenic Risk of Chemicals to Humans World Health Organization EU Directive 91/322/EEC and 2000/39/EC 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) |