

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

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

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

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

**TC 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)	Friction washer	SUS	N/A
6)	Back tension spring	SUS	N/A
7)	Ribbon drive spool	ABS	N/A
8)	Ribbon spring plate	SUS	N/A
9)	Tape feed roller	ABS	N/A
10)	Adhesive tape roller	POM	N/A
11)	Color indication	Paper	N/A
12)	Ribbon wind stopper	Paper	N/A
13)	TC cassette ribbon	--	5V1982-M1-EUUSOTHER
14)	TC cassette tape	--	5V1982-M2-EUUSOTHER
15)	Spool	AS	N/A

**Model Number List**

The model numbers to be covered with PSIS No. 5V1982-P1-EUUSOTHER are as below.

TC-00	TC-001	TC-002	TC-003	TC-01	TC-02	TC-10
TC-1004	TC-101	TC-102	TC-103	TC-104	TC-11	TC-12
TC-13	TC-20	TC-2004	TC-201	TC-202	TC-203	TC-20Z1
TC-21	TC-22	TC-291	TC-291L	TC292	TC-293	TC-30
TC-301	TC-33	TC-391	TC-40	TC-401	TC-40Z1	TC-491
TC-50	TC-5001	TC-501	TC-591	TC-6001	TC-601	TC-691
TC-7001	TC-701	TC-791	TC-8001	TC-891	TC-90Z1	TC-991
TC-A0Z1	TC-B001	TC-B01	TC-C001	TC-C01	TC-D001	TC-D01
TC-M91	TC-M92	TC-M93	TC-M0Z	TC-V016	TC-WB01	TC-WS01
TC-WT01	TC-Y001	TC-Y01	TC-Y02	TC-Y03	TC-Y101	TC-Y201
TC-K14	TC-101A	TC-201A				

Product name: TC 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: 5V1982-M1-EUUSOTHER

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

### 1.1 Product identifier

**Product name** TC 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. TC 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: TC cassette ribbon  
(Please refer to PSIS to find the applicable models)

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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	20
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

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## 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: TC cassette ribbon  
(Please refer to PSIS to find the applicable models)

Issuing Date: 31-January-2000  
Revision Date: 18-September-2015  
Version: 10  
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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. TC 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 <sup>3</sup> inhalable fraction
OSHA PEL	TWA: 3.5 mg/m <sup>3</sup>
European Union	-
The United Kingdom	STEL: 7 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup>
France	TWA: 3.5 mg/m <sup>3</sup>
Spain	TWA: 3.5 mg/m <sup>3</sup>
Germany	Carc
Portugal	TWA: 3.5 mg/m <sup>3</sup>
Finland	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
Denmark	TWA: 3.5 mg/m <sup>3</sup>
Poland	TWA: 4.0 mg/m <sup>3</sup>
Norway	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
Ireland	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
Chemical Name	Paraffin wax 8002-74-2
ACGIH TLV	TWA: 2 mg/m <sup>3</sup> fume
OSHA PEL	-
European Union	-
The United Kingdom	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
France	TWA: 2 mg/m <sup>3</sup>
Spain	TWA: 2 mg/m <sup>3</sup>
Portugal	TWA: 2 mg/m <sup>3</sup>
Finland	TWA: 1 mg/m <sup>3</sup>
Denmark	TWA: 2 mg/m <sup>3</sup>
Switzerland	TWA: 2 mg/m <sup>3</sup>
Poland	TWA: 2 mg/m <sup>3</sup>
Norway	TWA: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup>
Ireland	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>
Chemical Name	Titanium dioxide 13463-67-7
ACGIH TLV	TWA: 10 mg/m <sup>3</sup>
OSHA PEL	TWA: 15 mg/m <sup>3</sup> total dust
European Union	-

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

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

## 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: TC 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

<b>10.1 Reactivity</b>	No information available.
<b>10.2 Chemical stability</b>	Stable.
<b>10.3 Possibility of hazardous reactions</b>	No information available.
<b>10.4 Conditions to avoid</b>	Keep away from heat. Avoid friction, sparks, or other means of ignition.
<b>10.5 Incompatible materials</b>	Strong oxidizing agents.
<b>10.6 Hazardous decomposition products</b>	Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.



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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: TC 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 <sub>50</sub> : >5600 mg/L 24 h (Daphnia magna)
Copper 7440-50-8	EC <sub>50</sub> : 0.0426 - 0.0535 mg/L 72 h static (Pseudokirchneriella subcapitata) EC <sub>50</sub> : 0.031 - 0.054 mg/L 96 h static (Pseudokirchneriella subcapitata)	LC <sub>50</sub> : 0.0068 - 0.0156 mg/L 96 h (Pimephales promelas) LC <sub>50</sub> : 0.3 mg/L 96 h static (Pimephales promelas) LC <sub>50</sub> : 0.2 mg/L 96 h flow-through (Pimephales promelas) LC <sub>50</sub> : 0.052 mg/L 96 h flow-through (Oncorhynchus mykiss) LC <sub>50</sub> : 1.25 mg/L 96 h static (Lepomis macrochirus) LC <sub>50</sub> : 0.3 mg/L 96 h semi-static (Cyprinus carpio) LC <sub>50</sub> : 0.8 mg/L 96 h static (Cyprinus carpio) LC <sub>50</sub> : 0.112 mg/L 96 h flow-through (Poecilia reticulata)	EC <sub>50</sub> : 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><b>EU:</b> Not classified as dangerous for supply/use. (EC) No 1272/2008</p> <p><b>USA:</b> 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><b>Canada:</b> WHMIS: Not applicable. (Manufactured article)</p>
15.2 Chemical Safety Assessment	No.

Product name: TC 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 Risks 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: TC 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: 5V1982-M2-EUUSOTHER

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

### 1.1 Product identifier

**Product name** TC 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. TC 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: TC cassette tape  
(Please refer to PSIS to find the applicable models)

Issuing Date: 31-January-2000  
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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

#### 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: TC 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: TC 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: 5V1982-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: TC 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: 5V1982-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. TC 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.



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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.

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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><b>EU:</b> Not classified as dangerous for supply/use. (1999/45/EC)</p> <p><b>USA:</b> 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><b>Canada:</b> 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)