

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-14Z1	TC-195	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-34Z	TC-391	TC-395
TC-40	TC-401	TC-40Z1	TC-491	TC-495	TC-50	TC-5001
TC-501	TC-54Z1	TC-591	TC-595	TC-60	TC-6001	TC-601
TC-64Z1	TC-691	TC-695	TC-7001	TC-701	TC-74Z1	TC-791
TC-795	TC-8001	TC-84Z1	TC-891	TC-90Z1	TC-991	TC-A0Z1
TC-A95	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: 10-November-2012
Version: 9
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): +1-800-284-4329

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 ribbon
(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).

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

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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 (67/548/EEC)	Classification (EU Reg. 1272/2008)	Black w/w%	White w/w%	Red w/w%	Blue w/w%	Gold w/w%
Carbon Black	1333-86-4	215-609-9	Not classified	Not classified	8	-	-	-	-
Paraffin wax	8002-74-2	232-315-6	Not classified	Not classified	18	15	17	18	18
Titanium dioxide	13463-67-7	236-675-5	Not classified	Not classified	-	30	3	2	-
Copper	7440-50-8	231-159-6	Not classified	Not classified	-	-	-	6	20
Colorant	**	**	Not classified	Not classified	**	**	**	**	**
Resin	**	**	Not classified	Not classified	**	**	**	**	**
Wax	**	**	Not classified	Not classified	**	**	**	**	**
Additive	**	**	Not classified	Not classified	**	**	**	**	**
Polyethylene terephthalate film	**	**	Not classified	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.

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

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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. 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 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

SAFETY DATA SHEET

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(Please refer to PSIS to find the applicable models)

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	-
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

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

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.
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	Film
Color	Black. White. 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: TC 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.

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

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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.

Product name: TC cassette ribbon
(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. (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.

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 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)

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
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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, 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)

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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.

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

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

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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)