

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

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 MSDS.

TZe cassette and TZ cassette are 'Article' and we have voluntarily made the MSDS.

	Name of part/Component	Material	MSDS No.
1)	Cassette case upper	ABS	N/A
2)	Cassette case lower	ABS	N/A
3)	Film tape	PET	N/A
4)	Spacer	PP or PET	N/A
5)	Ribbon clutch spring	SWC or SWPB	N/A
6)	Ribbon clutch spring holder	POM	N/A
7)	Take-up spool	HIPS or ABS	N/A
8)	Take-up spool spring	SUS	N/A
9)	Tape feed roller	ABS or HIPS	N/A
10)	Adhesive tape roller	PP	N/A
11)	Tape roller	PE	N/A
12)	Sensor parts	ABS	N/A
13)	Color indication	PS or Paper	N/A
14)	TZe cassette ribbon / TZ cassette ribbon	--	5VA926-M1-EUUSOTHER
15)	TZe cassette tape / TZ cassette tape	--	5VA926-M2-EUUSOTHER
16)	Spool	ABS or AS or HIPS	N/A

Model Number List

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

TZe-111	TZe-111V	TZe-121	TZe-121V	TZe-131
TZe-1312PK	TZe-131V	TZe-132	TZe-133	TZe-135
TZe-141	TZe-141V	TZe-145	TZe-151	TZe-151V
TZe-161	TZe-161V	TZe-211	TZe-211V	TZe-221
TZe-221V	TZe-221V2	TZe-222	TZe-223	TZe-231
TZe-2312PK	TZe-231CIV	TZe-231S	TZe-231V	TZe-231V2
TZe-231V10	TZe-232	TZe-233	TZe-241	TZe-241CIV
TZe-241V	TZe-242	TZe-243	TZe-251	TZe-251CIV
TZe-251V	TZe-251V10	TZe-252	TZe-253	TZe-261
TZe-261CIV	TZe-261V	TZe-262	TZe-263	TZe-315
TZe-31M3	TZe-31V3	TZe-31VA	TZe-325	TZe-32M3
TZe-334	TZe-335	TZe-344	TZe-345	TZe-354
TZe-355	TZe-365	TZe-421	TZe-431	TZe-431S
TZe-435	TZe-441	TZe-451	TZe-461	TZe-521
TZe-531	TZe-535	TZe-541	TZe-545	TZe-551
TZe-555	TZe-561	TZe-611	TZe-611V	TZe-621
TZe-621V	TZe-631	TZe-631V	TZe-641	TZe-641V
TZe-651	TZe-651V	TZe-661	TZe-661V	TZe-721
TZe-731	TZe-741	TZe-751	TZe-AF131	TZe-AF231
TZe-B31	TZe-B41	TZe-B51	TZe-BA151	TZe-BA155
TZe-BW31	TZe-BY31	TZe-C31	TZe-C51	TZe-DB31
TZe-DH31	TZe-DL31	TZe-DP31	TZe-DW31	TZe-DY31
TZe-FX211	TZe-FX221	TZe-FX231	TZe-FX231CS	TZe-FX241
TZe-FX251	TZe-FX261	TZe-FX611	TZe-FX621	TZe-FX631
TZe-FX641	TZe-FX651	TZe-FX661	TZe-HW31	TZe-M251
TZe-M31	TZe-M931	TZe-M941	TZe-M951	TZe-M961
TZe-MQ835	TZe-MQ934	TZe-MQG35	TZe-MQL35	TZe-MQP35
TZe-N201	TZe-N221	TZe-N231	TZe-N241	TZe-N251
TZe-Q35V3	TZe-S121	TZe-S131	TZe-S135	TZe-S141
TZe-S151	TZe-S211	TZe-S221	TZe-S231	TZe-S231CS
TZe-S241	TZe-S241CS	TZe-S251	TZe-S261	TZe-S621
TZe-S631	TZe-S641	TZe-S641CS	TZe-S651	TZe-S661
TZe-SE4	TZe-SM941	TZe-SM951	TZe-SM961	TZe-UB31
TZe-UP31				

HGe-131	HGe-131V	HGe-131V5	HGe-141	HGe-1415PK
HGe-141V	HGe-141V5	HGe-151	HGe-1515PK	HGe-151V
HGe-151V5	HGe-211	HGe-221	HGe-2215PK	HGe-221V
HGe-221V5	HGe-231	HGe-2315PK	HGe-231V	HGe-231V5
HGe-241	HGe-2415PK	HGe-241V	HGe-241V5	HGe-251
HGe-2515PK	HGe-251V	HGe-251V5	HGe-261	HGe-261V
HGe-261V5	HGe-621	HGe-621V5	HGe-631	HGe-631V
HGe-631V5	HGe-641	HGe-6415PK	HGe-641V	HGe-641V5
HGe-651	HGe-6515PK	HGe-651V	HGe-651V5	HGe-M931
HGe-M931V	HGe-M931V5	HGe-M941	HGe-M9415PK	HGe-M941V
HGe-M941V5	HGe-M951	HGe-M9515PK	HGe-M951V	HGe-M951V5
HGe-S141	HGe-S1415PK	HGe-S151	HGe-S1515PK	HGe-S221
HGe-S2215PK	HGe-S231	HGe-S2315PK	HGe-S241	HGe-S2415PK
HGe-S251	HGe-S2515PK	HGe-S261	HGe-S2615PK	HGe-S641
HGe-S6415PK	HGe-S651	HGe-S6515PK	HGe-SM941	HGe-SM9415PK
HGe-SM951	HGe-SM9515PK	HGe-SM961	HGe-SM961V5	
TZ-111	TZ-111V	TZ-121	TZ-121V	TZ-122
TZ-123	TZ-125	TZ-131	TZ-131V	TZ-132
TZ-133	TZ-135	TZ-141	TZ-141V	TZ-143
TZ-145	TZ-151	TZ-151V	TZ-152	TZ-153
TZ-155	TZ-161	TZ-161V	TZ-164	TZ-165
TZ-211	TZ-211V	TZ-221	TZ-2212PK	TZ-221V
TZ-221V2	TZ-222	TZ-223	TZ-231	TZ-2312PK
TZ-231CIV	TZ-231S	TZ-231V	TZ-231V10	TZ-231V2
TZ-232	TZ-233	TZ-241	TZ-241CIV	TZ-241V
TZ-2413	TZ-242	TZ-243	TZ-251	TZ-251CIV
TZ-251V	TZ-251V10	TZ-252	TZ-253	TZ-261
TZ-261CIV	TZ-261V	TZ-262	TZ-263	TZ-315
TZ-31M3	TZ-31V3	TZ-31VA	TZ-324	TZ-325
TZ-334	TZ-335	TZ-344	TZ-345	TZ-354
TZ-355	TZ-364	TZ-365	TZ-411	TZ-421
TZ-431	TZ-431S	TZ-435	TZ-441	TZ-451
TZ-455	TZ-461	TZ-511	TZ-521	TZ-531
TZ-535	TZ-541	TZ-545	TZ-551	TZ-555
TZ-561	TZ-611	TZ-611V	TZ-621	TZ-621V
TZ-631	TZ-631V	TZ-635	TZ-641	TZ-641V
TZ-651	TZ-651V	TZ-655	TZ-661	TZ-661V
TZ-711	TZ-721	TZ-731	TZ-735	TZ-741
TZ-751	TZ-755	TZ-761	TZ-831	TZ-841
TZ-851	TZ-931	TZ-941	TZ-951	TZ-A25

TZ-A31	TZ-A51	TZ-AF131	TZ-AF231	TZ-AFG31
TZ-AFP31	TZ-AFW31	TZ-B21	TZ-B31	TZ-B41
TZ-B51	TZ-BA151	TZ-BA155	TZ-BW31	TZ-BY31
TZ-C21	TZ-C31	TZ-C41	TZ-C51	TZ-D21
TZ-D231	TZ-D241	TZ-D31	TZ-D41	TZ-D51
TZ-D631	TZ-DB31	TZ-DB41	TZ-DC31	TZ-DE31
TZ-DF31	TZ-DG31	TZ-DH31	TZ-DH41	TZ-DL31
TZ-DL41	TZ-DP31	TZ-DV31A	TZ-DV31B	TZ-DW31
TZ-DY31	TZ-FX111	TZ-FX121	TZ-FX131	TZ-FX141
TZ-FX151	TZ-FX161	TZ-FX211	TZ-FX221	TZ-FX231
TZ-FX241	TZ-FX242	TZ-FX251	TZ-FX261	TZ-FX262
TZ-FX431	TZ-FX611	TZ-FX621	TZ-FX631	TZ-FX641
TZ-FX651	TZ-FX661	TZ-FX731	TZ-GB31	TZ-GY31
TZ-HB31	TZ-HW31	TZ-M21	TZ-M241	TZ-M251
TZ-M31	TZ-M41	TZ-M51	TZ-M831	TZ-M841
TZ-M851	TZ-M931	TZ-M941	TZ-M951	TZ-M961
TZ-MQ835	TZ-MQ934	TZ-MQG35	TZ-MQL35	TZ-MQP35
TZ-N201	TZ-N211	TZ-N221	TZ-N231	TZ-N241
TZ-N251	TZ-N631	TZ-N641	TZ-N651	TZ-Q35V3
TZ-S111	TZ-S121	TZ-S131	TZ-S135	TZ-S141
TZ-S145	TZ-S151	TZ-S155	TZ-S161	TZ-S211
TZ-S221	TZ-S231	TZ-S231CS	TZ-S241	TZ-S241CS
TZ-S251	TZ-S261	TZ-S611	TZ-S621	TZ-S631
TZ-S641	TZ-S641CS	TZ-S651	TZ-S661	TZ-SE4
TZ-SM941	TZ-SM951	TZ-SM961	TZ-UB31	TZ-UP31
TZ-US31				

HG-131	HG-131V	HG-131V5	HG-141	HG-1415PK
HG-141V	HG-141V5	HG-151	HG-1515PK	HG-151V
HG-151V5	HG-211	HG-221	HG-2215PK	HG-221V
HG-221V5	HG-231	HG-2315PK	HG-231V	HG-231V5
HG-241	HG-2415PK	HG-241V	HG-241V5	HG-251
HG-2515PK	HG-251V	HG-251V5	HG-261	HG-261V
HG-261V5	HG-621	HG-621V5	HG-631	HG-631V
HG-631V5	HG-641	HG-6415PK	HG-641V	HG-641V5
HG-651	HG-6515PK	HG-651V	HG-651V5	HG-M931
HG-M931V	HG-M931V5	HG-M941	HG-M9415PK	HG-M941V
HG-M941V5	HG-M951	HG-M9515PK	HG-M951V	HG-M951V5

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

Version number: 3
SDS No. 5VA926-M1-EUUSOTHER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: TZe cassette ribbon, TZ cassette ribbon

Use: These products are ink ribbons for Brother Industries, Ltd. TZe cassette or TZ cassette.

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
100 Somerset Corporate Boulevard, P.O. Box 6911, Bridgewater, NJ 08807-0911, 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

Emergency Phone No.: 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

E-mail address for information: sds.info@brother.co.jp

2. HAZARDS IDENTIFICATION

Potential Health Effects:

Inhalation:
No specific effects and/or symptoms have been reported or known.

Skin Contact:
No specific effects and/or symptoms have been reported or known.

Eye Contact:
No specific effects and/or symptoms have been reported or known.

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

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

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

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

Version number: 3
SDS No. 5VA926-M1-EUUSOTHER

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Ink on substrate film (Mixture)

Chemical Name	CAS No.	EC No.	EU Hazard Symbols	EU Risk Phrases	Black %W/W	White %W/W	Red %W/W	Blue %W/W	Gold %W/W
Carbon Black	1333-86-4	215-609-9	*	*	2-9	-	-	-	-
Paraffin wax	8002-74-2	232-315-6	*	*	≤12	7	≤10	≤10	≤9
Titanium dioxide	13463-67-7	236-675-5	*	*	-	33-35	-	-	-
Silicon Dioxide (amorphous)	7631-86-9	231-545-4	*	*	-	2	-	-	-
Copper	7440-50-8	231-159-6	*	*	-	-	-	-	≤17
Copper compound	**	**	*	*	-	-	-	≤4	-
Colorant	**	**	*	*	-	**	**	**	**
Resin	**	**	*	*	**	**	**	**	**
Wax	**	**	*	*	**	**	**	**	**
Additive	**	**	*	*	**	**	**	**	**
Synthetic resin	**	**	*	*	**	-	**	**	**
Organic filler	**	**	*	*	**	-	**	**	**
Dispersant	**	**	*	*	**	-	**	**	**
Brass powder	**	**	*	*	-	-	-	-	**
Polyethylene terephthalate film	**	**	*	*	**	**	**	**	**

* Not classified
** Confidential

4. FIRST AID MEASURES

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 200-300 ml (half a pint) of water to drink.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish preferably with dry chemical, Carbon dioxide, Water mist, Foam.

Unsuitable Extinguishing Media: None.

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

Unusual fire and explosion hazards: No data.

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

Version number: 3
SDS No. 5VA926-M1-EUUSOTHER

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Not normally required. See Section: 8

Environmental Precautions: Avoid release to the environment

Methods for Cleaning Up: Not applicable.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes.

Storage: Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

SUBSTANCE	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
Carbon Black	1333-86-4	3.5 mg/m ³ TWA	3 mg/m ³ TWA	None.
Paraffin wax (Fume)	8002-74-2	None.	2 mg/m ³ TWA	None.
Titanium dioxide	13463-67-7	15 mg/m ³ TWA	10 mg/m ³ TWA	None.
Silicon Dioxide (amorphous)	7631-86-9	20mppcf 80(mg/m ³)/%SiO ₂	None.	None.
Copper	7440-50-8	1 mg/m ³ TWA	1 mg/m ³ TWA	None.

Environmental Exposure Controls: Not normally required.

Ventilation: Good general ventilation should be sufficient under normal use.

Personal Protection: 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/face: Goggles.
Skin: Protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH (Value): Not applicable.

Form: Film.

Color: Black. White. Red. Blue or Gold.

Odor: Odorless.

Boiling Point (°C): Not applicable.

Melting Point (°C): Not applicable.

Vapor Pressure (Pascal): Not applicable.

Viscosity (mPa.s): Not applicable.

Flash Point (°C): Not applicable.

Flammable Limits (Upper) (%v/v): No data.

Flammable Limits (Lower) (%v/v): No data.

Explosive Properties: No data.

Specific Gravity: No data.

Vapor Density (Air=1): Not applicable.

Partition Coefficient (n-Octanol/water): No data.

Relative Evaporation Rate (Butyl Acetate=1): Not applicable.

Oxidizing Properties: No data.

Solubility (Water): Negligible.

Solubility (Other): No data.

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

Version number: 3
SDS No. 5VA926-M1-EUUSOTHER

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to avoid:	Keep away from heat. Avoid friction, sparks, or other means of ignition.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Product(s):	Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Ingestion:	No data.
Inhalation:	No data.
Skin Contact:	No data.
Eye Contact:	No data.
Mutagenicity:	No data.
Skin sensitization:	No data.
Prink Inks:	Not-classified Human Carcinogen IARC Classification: Group 3.
Carbon Black:	<p>Carcinogenicity Information. In 1996, the IARC reevaluated 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.</p>

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

12. ECOLOGICAL INFORMATION

No data available on the adverse effects of this product on the environment.

Toxicity:	No data.
Environmental Fate and Distribution:	No data.
Persistence and Degradation:	No data.

13. DISPOSAL CONSIDERARIONS

Dispose of in compliance with Federal, State and local regulations.

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

Version number: 3
SDS No. 5VA926-M1-EUUSOTHER

14. TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

UN No.: None.

Class: None.

15. REGULATORY INFORMATION

USA: All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).

EU: Not classified as dangerous for supply/use. (1999/45/EC, 67/548/EEC)
Hazard Symbol, Risk Phrases, Safety Phrases: None assigned.

Canada: WHMIS: Not applicable. (Manufactured article)

16. OTHER INFORMATION

The following sections contain revisions or new statements: Section 1, 3 and 8

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).

Reference:

- U.S. 29CFR Part 1910
- ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- EU Directive 91/322/EEC and 2000/39/EC
- IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans World Health Organization
- NTP 11th Report on Carcinogens

Abbreviations:

- ACGIH: American Conference of Governmental Industrial Hygienists
- ADR: European Agreement concerning the International carriage of Dangerous goods by Road (EU)
- DOT: Department Of Transportation (US)
- EINECS: European Inventory of Existing Commercial Chemical Substances
- HCS: Hazard Communication Standard (US)
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- IMDG: International Maritime Dangerous Goods
- IOELV: Indicative Occupational Exposure Limit Value
- NOHSC: National Occupational Health and Safety Commission (Australia)
- NTP: National Toxicology Program (US)
- OSHA: Occupational Safety and Health Administration (US)
- PEL: Permissible Exposure Limit
- RID: Regulations concerning the International carriage of goods by Rail (EU)
- TLV: Threshold Limit Value (ACGIH)
- TSCA: Toxic Substances Control Act (US)
- WHMIS: Workplace Hazardous Material Information System (Canada)

Product Name
TZe cassette tape, TZ cassette tape
(Please refer to PSIS to find the applicable models.)

Version number: 2
SDS No. 5VA926-M2-EUUSOTHER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: TZe cassette tape, TZ cassette tape

Use: These products are tapes for Brother Industries, Ltd. TZe cassette or TZ cassette.

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
100 Somerset Corporate Boulevard, P.O. Box 6911, Bridgewater, NJ 08807-0911, 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

Emergency Phone No.: 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

E-mail address for information: sds.info@brother.co.jp

2. HAZARDS IDENTIFICATION

Potential Health Effects:

Inhalation:
No specific effects and/or symptoms have been reported or known.

Skin Contact:
No specific effects and/or symptoms have been reported or known.

Eye Contact:
No specific effects and/or symptoms have been reported or known.

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

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

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

Product Name
TZe cassette tape, TZ cassette tape
(Please refer to PSIS to find the applicable models.)

Version number: 2
SDS No. 5VA926-M2-EUUSOTHER

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: TZe cassette tape (Article), TZ cassette tape (Article)

Chemical Name	CAS No.	EC No.	%W/W	EU Hazard Symbols	EU Risk Phrases
Polyester film	Confidential	Confidential	-	Not classified.	Not classified.
Ink	Confidential	Confidential	-	Not classified.	Not classified.
Acrylic adhesive	Confidential	Confidential	-	Not classified.	Not classified.
Liner	Confidential	Confidential	-	Not classified.	Not classified.

4. FIRST AID MEASURES

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 200-300 ml (half a pint) of water to drink.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish preferably with dry chemical, Carbon dioxide, Water, Foam.

Unsuitable Extinguishing Media: None.

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

Unusual fire and explosion hazards: No data.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Not normally required. See Section: 8

Environmental Precautions: Avoid release to the environment

Methods for Cleaning Up: Not applicable.

7. HANDLING AND STORAGE

Handling: No special requirements.

Storage: Keep away from oxidizing agents.

Product Name
TZe cassette tape, TZ cassette tape
(Please refer to PSIS to find the applicable models.)

Version number: 2
SDS No. 5VA926-M2-EUUSOTHER

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	None assigned.
Environmental Exposure Controls:	Not normally required.
Ventilation:	Good general ventilation should be sufficient under normal use.
Personal Protection:	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/face: Goggles. Skin: Protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH (Value):	Not applicable.
Form:	Tape rolled.
Color:	Various color.
Odor:	Odorless.
Boiling Point (°C):	Not applicable.
Melting Point (°C):	Not applicable.
Vapor Pressure (Pascal):	Not applicable.
Viscosity (mPa.s):	Not applicable.
Flash Point (°C):	Not applicable.
Flammable Limits (Upper) (%v/v):	No data.
Flammable Limits (Lower) (%v/v):	No data.
Explosive Properties:	No data.
Specific Gravity:	No data.
Vapor Density (Air=1):	Not applicable.
Partition Coefficient (n-Octanol/water):	No data.
Relative Evaporation Rate (Butyl Acetate=1):	Not applicable.
Oxidizing Properties:	No data.
Solubility (Water):	Insoluble.
Solubility (Other):	No data.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to avoid:	Keep away from heat. Avoid friction, sparks, or other means of ignition.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Product(s):	Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

Product Name
TZe cassette tape, TZ cassette tape
(Please refer to PSIS to find the applicable models.)

Version number: 2
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11. TOXICOLOGICAL INFORMATION

Ingestion: No data.
Inhalation: No data.
Skin Contact: No data.
Eye Contact: No data.
Mutagenicity: No data.
Skin sensitization: No data.

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

12. ECOLOGICAL INFORMATION

No data available on the adverse effects of this product on the environment.

Toxicity: No data.
Environmental Fate and Distribution: No data.
Persistence and Degradation: No data.

13. DISPOSAL CONSIDERARIONS

Dispose of in compliance with Federal, State and local regulations.

14. TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

UN No.: None.
Class: None.

15. REGULATORY INFORMATION

USA: All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).
EU: Not classified as dangerous for supply/use. (1999/45/EC, 67/548/EEC)
Hazard Symbol, Risk Phrases, Safety Phrases: None assigned.
Canada: WHMIS: Not applicable. (Manufactured article)

Product Name
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(Please refer to PSIS to find the applicable models.)

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16. OTHER INFORMATION

The following sections contain revisions or new statements: Section 1 and 3.

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).

Reference:

- U.S. 29CFR Part 1910
- ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- EU Directive 91/322/EEC and 2000/39/EC
- 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
ADR: European Agreement concerning the International carriage of Dangerous goods by Road (EU)
DOT: Department Of Transportation (US)
EINECS: European Inventory of Existing Commercial Chemical Substances
HCS: Hazard Communication Standard (US)
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
IOELV: Indicative Occupational Exposure Limit Value
NOHSC: National Occupational Health and Safety Commission (Australia)
NTP: National Toxicology Program (US)
OSHA: Occupational Safety and Health Administration (US)
PEL: Permissible Exposure Limit
RID: Regulations concerning the International carriage of goods by Rail (EU)
TLV: Threshold Limit Value (ACGIH)
TSCA: Toxic Substances Control Act (US)
WHMIS: Workplace Hazardous Material Information System (Canada)