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.

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<th>Name of part/Component</th>
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Model Number List
The model numbers to be covered with PSIS No. 5VA926-P1-EUUSOTHER are as below.

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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
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TZe-M961  TZe-MQ835  TZe-MQ934  TZe-MQG35  TZe-MQL35
TZe-MQP35  TZe-N201  TZe-N221  TZe-N231  TZe-N241
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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-S941  TZe-S951  TZe-S961  TZe-SE4
TZe-SM941  TZe-SM951  TZe-SM961  TZe-UB31  TZe-UP31
HGe-121  HGe-1215PK  HGe-131  HGe-1315PK  HGe-131V
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HGe-151  HGe-1515PK  HGe-151V  HGe-151V5  HGe-161
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HGe-SM961  HGe-SM961V5
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
   Product Name: TZe cassette ribbon, TZ cassette ribbon

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Identified use(s): These products are ink ribbons for Brother Industries, Ltd. TZe cassette ribbon, TZ cassette ribbon

1.3 Details of the supplier of the safety data sheet
   Manufacturer: Brother Industries, Ltd.
   15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan
   Telephone (for information): +81-52-824-2735

   Importer (USA): Brother International Corporation
   P.O. Box 6911, 100 Somerset Corporate Boulevard, 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

   E-Mail (competent person): sds.info@brother.co.jp

1.4 Emergency telephone number
   Emergency Phone No. (24 hours)
   CHEMTREC
   +1-703-527-3887 (International)
   +1-800-424-9300 (North America)
   For France only:
   Antipoison Centre telephone number: ORFILA +33-1-45-425-959

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
   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.

2.2 Label elements
   Label elements according to EU Directive 1999/45/EC: None

2.3 Other hazards
   None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
Ink on substrate film (Mixture).

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<th>EU Risk Phrases</th>
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<td>Paraffin wax</td>
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<td>Copper compound</td>
<td>**</td>
<td>**</td>
<td>*</td>
<td>*</td>
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<td>-</td>
<td>-</td>
<td>-4</td>
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<td>Colorant</td>
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<td>*</td>
<td>-</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
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<td>**</td>
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<td>**</td>
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<tr>
<td>Wax</td>
<td>**</td>
<td>**</td>
<td>*</td>
<td>*</td>
<td>-</td>
<td>**</td>
<td>**</td>
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<tr>
<td>Additive</td>
<td>**</td>
<td>**</td>
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<td>**</td>
<td>**</td>
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<tr>
<td>Synthetic resin</td>
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<td>*</td>
<td>-</td>
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<tr>
<td>Organic Filler</td>
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<tr>
<td>Dispersant</td>
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<td>-</td>
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<td>**</td>
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</tr>
<tr>
<td>Brass powder</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Polyethylene terephthalate film</td>
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<td>**</td>
<td>*</td>
<td>*</td>
<td>-</td>
<td>**</td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
</tbody>
</table>

*Not classified.
**Confidential.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

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.

4.2 Most important symptoms and effects, both acute and delayed

If symptoms persist, obtain medical attention.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE-FIGHTING 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 data.

5.3 Advice for fire-fighters

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. See Section: 8.
6.2 Environmental precautions  Avoid release to the environment.

6.3 Methods and material for containment and cleaning up  Not applicable.

6.4 Reference to other sections  See Section: 8.

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 oxidising agents.

7.3 Specific end use(s)  These products are ink ribbons for Brother Industries, Ltd. TZe cassette ribbon, TZ cassette ribbon.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>EU IOELV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>3.5 mg/m³ TWA</td>
<td>3.5 mg/m³ TWA</td>
<td>None.</td>
</tr>
<tr>
<td>Paraffin wax</td>
<td>8002-74-2</td>
<td>None.</td>
<td>2.0 mg/m³ TWA</td>
<td>None.</td>
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<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>15 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
<td>None.</td>
</tr>
<tr>
<td>Silica</td>
<td>7631-86-9</td>
<td>20 mppcf</td>
<td>80 (mg/m³)/% Si O₂</td>
<td>None.</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>1 mg/m³ TWA</td>
<td>1 mg/m³ TWA</td>
<td>None.</td>
</tr>
</tbody>
</table>

8.2 Exposure controls  Not normally required.

Appropriate engineering controls  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 protection  Goggles.
   Skin protection  Protective gloves.
   Respiratory protection  Not applicable.
   Other  Not applicable.

Environmental Exposure Controls  Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

   Appearance (20 °C)  Film.
   Color.  Black, White, Red, Blue, Gold.
   Odor  Slight wax’s odor.
   Boiling point/boiling range (°C):  Not applicable.
   Melting point (°C) / Freezing point (°C):  Not applicable.
   Vapor pressure (Pascal):  Not applicable.
   pH (Value):  Not applicable.
   Viscosity (mPa. s):  Not applicable.
   Flash point (°C):  Not applicable.
   Explosive limit ranges:  No data.
   Explosive properties:  No data.
Specific Gravity: Not applicable.
Vapor density (Air=1): No data.
Partition coefficient (n-Octanol/water): Not applicable.
Relative Evaporation Rate (Ether = 1): No data.
Oxidising properties: Negligible.
Solubility (Water): No data.
Solubility (Other): No data.

9.2 Other information
None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
None anticipated.

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
None.

10.4 Conditions to avoid
Keep away from heat. Avoid friction, sparks, or other means of ignition.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous Decomposition Product(s)
Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:
Ingestion: No data.
Inhalation: No data.
Skin Contact: No data.
Eye Contact: No data.

Skin corrosion/irritation: No specific effects and/or symptoms have been reported or known.
Serious eye damage/irritation: No specific effects and/or symptoms have been reported or known.
Respiratory or skin sensitization: No data.

Mutagenicity: No data.

Carcinogenicity:

Printing Inks:
Non-classified Human Carcinogen IARC Classification: Group 3.

Titanium dioxide:
IARC Classification: Group 2B. The agent is possibly carcinogenic to human.

Carbon Black:
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.

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

Reproductive toxicity: No data.
STOT-single exposure: No data.
STOT-repeated exposure: No data.
Aspiration hazard: Not applicable.

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.
SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity
No data.

12.2 Persistence and degradability
No data.

12.3 Bioaccumulative potential
No data.

12.4 Mobility in soil
No data.

12.5 Results of PBT and vPvB assessment
No data.

12.6 Other adverse effects
No data.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

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

14.1 UN number
None.

14.2 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 MARPOL73/78 and the IBC Code
Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
USA: All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).
WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment
No.

SECTION 16: OTHER INFORMATION

Hazard Symbol: None.
Risk Phrases: None.
Revision: 30 November 2011
Date of Issue: 8 November 2010

The following sections contain revisions or new statements: Formats, Sections 1, 3, 8 and 11

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).

References:
U.S. 29CFR Part 1910
ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
SAFETY DATA SHEET

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

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)
SAFETY DATA SHEET

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

Date: Issued 8 November 2010
Revised 30 November 2011
Version Number:3
SDS No.: 5VA926-M2-EUUSOTHER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product Name: TZe cassette tape, TZ cassette tape

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified use(s): These products are tapes for Brother Industries, Ltd. TZe cassette tape, TZ cassette tape

1.3 Details of the supplier of the safety data sheet
Manufacturer: Brother Industries, Ltd.
15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan
Telephone (for information): +81-52-824-2735

Importer (USA):
Brother International Corporation
P.O. Box 6911, 100 Somerset Corporate Boulevard, 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

E-Mail (competent person): sds.info@brother.co.jp

1.4 Emergency telephone number
Emergency Phone No. (24 hours)
CHEMTREC
+1-703-527-3887 (International)
+1-800-424-9300 (North America)
For France only:
Antipoison Centre telephone number: ORFILA +33-1-45-425-959

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
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.

2.2 Label elements
Label elements according to EU Directive 1999/45/EC : None

2.3 Other hazards
None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
TZe cassette tape (Article), TZ cassette tape (Article)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>%W/W</th>
<th>EU Hazard Symbols</th>
<th>EU Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester film</td>
<td>Confidential</td>
<td>Confidential</td>
<td>-</td>
<td>Not classified.</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Ink</td>
<td>Confidential</td>
<td>Confidential</td>
<td>-</td>
<td>Not classified.</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Acrylic adhesive</td>
<td>Confidential</td>
<td>Confidential</td>
<td>-</td>
<td>Not classified.</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Liner</td>
<td>Confidential</td>
<td>Confidential</td>
<td>-</td>
<td>Not classified.</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>
SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
   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.

4.2 Most important symptoms and effects, both acute and delayed
   If symptoms persist, obtain medical attention.

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

SECTION 5: FIRE-FIGHTING 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 data.

5.3 Advice for fire-fighters
   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. See Section: 8.

6.2 Environmental precautions
   Avoid release to the environment.

6.3 Methods and material for containment and cleaning up
   Not applicable.

6.4 Reference to other sections
   See Section: 8.

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 oxidising agents.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
   No Occupational Exposure Limit assigned.

8.2 Exposure controls
   Not normally required.

   Appropriate engineering controls
   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 a large spill), the following should be applied:
Eye/face protection: Goggles.

Skin protection: Protective gloves.

Respiratory protection: Not applicable.

Other: Not applicable.

Environmental Exposure Controls: Avoid release to the environment.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

- **Appearance (20 °C):** Tape rolled.
- **Color:** Various color.
- **Odor:** Odorless.
- **Odor threshold (ppm):** No data.
- **pH (Value):** Not applicable.
- **Melting point (°C) / Freezing point (°C):** Not applicable.
- **Boiling point / boiling range (°C):** Not applicable.
- **Flash point (°C):** Not applicable.
- **Evaporation rate:** Not applicable.
- **Flammability (solid, gas):** No data.
- **Explosive limit ranges:** No data.
- **Vapor pressure (mmHg):** Not applicable.
- **Vapor density (Air=1):** Not applicable.
- **Density (g/ml):** Not data.
- **Solubility (Water):** Insoluble.
- **Solubility (Other):** Not applicable.
- **Partition coefficient (n-Octanol/water):** No data.
- **Auto ignition point (°C):** No data.
- **Decomposition temperature (°C):** No data.
- **Viscosity (mPa.s):** Not applicable.
- **Explosive properties:** No data.
- **Oxidising properties:** No data.

#### 9.2 Other information: None.

### SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: None anticipated.

10.2 Chemical stability: Stable.

10.3 Possibility of hazardous reactions: None.

10.4 Conditions to avoid: Keep away from heat. Avoid friction, sparks, or other means of ignition.

10.5 Incompatible materials: Strong oxidising agents.

10.6 Hazardous Decomposition Product(s): Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

**Acute toxicity:**
- **Ingestion:** No data.
- **Inhalation:** No data.
- **Skin Contact:** No data.
- **Eye Contact:** No data.

**Skin corrosion/irritation:** No specific effects and/or symptoms have been reported or known.

**Serious eye damage/irritation:** No specific effects and/or symptoms have been reported or known.

**Respiratory or skin sensitization:** No data.

**Mutagenicity:** No data.

**Carcinogenicity:** Ingredients of this product have not been classified as carcinogens.
Reproductive toxicity: No data.
STOT-single exposure: No data.
STOT-repeated exposure: No data.
Aspiration hazard: Not applicable.
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.

SECTION 12: ECOLOGICAL INFORMATION
No data available on the adverse effects of this product on the environment.

12.1 Toxicity No data.
12.2 Persistence and degradability No data.
12.3 Bioaccumulative potential No data.
12.4 Mobility in soil No data.
12.5 Results of PBT and vPvB assessment No data.
12.6 Other adverse effects No data.

SECTION 13: DISPOSAL CONSIDERATIONS

SECTION 14: TRANSPORT INFORMATION
Not classified according to the United Nations ‘Recommendations on the Transport of Dangerous Goods’.

14.1 UN number None.
14.2 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 MARPOL73/78 and the IBC Code Not applicable.

SECTION 15: REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU: Not classified as dangerous for supply/use. (1999/45/EC, 67/548/EEC) Hazard Symbol, Risk Phrases, Safety Phrases: None assigned. USA: All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules). WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment No.

SECTION 16: OTHER INFORMATION
Hazard Symbol: None.
Risk Phrases: None.
Revision: 30 November 2011
Date of Issue: 8 November 2010
The following sections contain revisions or new statements: Formats, Sections 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).

References:

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

Abbreviations:

- ACGIH: American Conference of Governmental Industrial Hygienists
- 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
- 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)