# SAFETY DATA SHEET

**Revision Date:** 28-Jul-2020
**Issuing Date:** 08-Nov-2010
Revision Number: 8
Safety data sheet number: 5VA926-M3-1

Product Name: TZe cassette r bbon, TZ cassette ribbon (Blue)

## 1. IDENTIFICATION

**Product identifier**

**Product Name** TZe cassette ribbon, TZ cassette ribbon (Blue)

**Model Number List** For applicable model numbers see the model number list in "16.Other information"

**Other means of identification**

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** These products are ink ribbons for TZe / TZ cassette manufactured by Brother Industries, Ltd.

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

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

**Supplier Address** Brother International Corporation
200 Crossing Boulevard, Bridgewater, NJ 08807, USA
Telephone (for information): +1-877-276-8437

**Emergency telephone number**

**Emergency Telephone** CHEMTREC +1-703-527-3887 (International)
CHEMTREC +1-800-424-9300 (North America)

## 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Hazards not otherwise classified (HNOC)**
Not applicable

**Label elements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance**
**Physical state** film **Odor:** Slight wax odor

**Other Information**

**Unknown acute toxicity**

100 % of the mixture consists of ingredient(s) of unknown toxicity
90 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
90 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

| Chemical name | CAS No | Weight-% | Trade secret |
|---|---|---|---|
| Paraffin wax | 8002-74-2 | <=10 | - |
| Copper compound | ** | <=4 | * |
| Wax | ** | ** | - |
| Synthetic resin | ** | ** | * |
| Resin | ** | ** | - |
| Polyethylene terephthalate film | ** | ** | - |
| Organic filler | ** | ** | * |
| Dispersant | ** | ** | * |
| Colorant | ** | ** | * |
| Additive | ** | ** | - |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

** Trade secret

## 4. FIRST AID MEASURES

**Description of first aid measures**

**General advice** If symptoms persist, call a physician.

**Inhalation** Not applicable.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact:** Wash off immediately with soap and plenty of water.

**Ingestion** Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No specific effects and/or symptoms have been reported or known

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Dry chemical, $CO_2$, water spray or regular foam

**Unsuitable extinguishing media** None.

**Specific hazards arising from the chemical** No information available

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Not normally required.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

Avoid release to the environment.

**Methods and material for containment and cleaning up**

**Methods for containment** Not applicable.

**Methods for cleaning up** Not applicable

**Prevention of secondary hazards** Not applicable.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin and eyes.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from oxidizing agents.

These products are ink ribbons for TZe / TZ cassette manufactured by Brother Industries, Ltd.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Paraffin wax<br>8002-74-2 | TWA: 2 mg/m$^3$ fume | (vacated) TWA: 2 mg/m$^3$ | TWA: 2 mg/m$^3$ fume |

**Appropriate engineering controls**

**Engineering controls** Good general ventilation should be sufficient under normal use.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** If there is a risk of contact:. Safety goggles.

**Hand protection** If there is a risk of contact:. Protective gloves.

**Skin and body protection** Not normally required.

**Respiratory protection** No special protective equipment required.

**Environmental exposure controls** Avoid release to the environment.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**
**Appearance**

| | |
|---|---|
| **Physical state** | film |
| **Color** | blue |
| **Odor** | Slight wax odor |
| **Odor threshold** | No information available |

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | Not applicable | |
| **Melting point / freezing point** | Not applicable | |
| **Boiling point / boiling range** | Not applicable | |
| **Flash point** | No data available | None known |
| **Evaporation rate** | No data available | None known |
| **Flammability (solid, gas)** | No data available | None known |
| **Flammability Limit in Air** | | None known |
| **Upper flammability limit:** | No data available | |
| **Lower flammability limit:** | No data available | |
| **Vapor pressure** | No data available | |
| **Vapor density** | No data available | |
| **Relative density** | No data available | None known |
| **Water solubility** | negligible | |
| **Solubility(ies)** | No data available | None known |
| **Partition coefficient** | No data available | None known |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | No data available | None known |
| **Kinematic viscosity** | Not applicable | |
| **Dynamic viscosity** | Not applicable | |
| **Explosive properties** | Not applicable | No information available. |
| **Oxidizing properties** | No information available | |

| Other Information | |
|---|---|
| **Softening point** | No information available |
| **Molecular weight** | No information available |
| **VOC Content (%)** | No information available |
| **Liquid Density** | No information available |
| **Bulk density** | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous reactions** No information available.

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

**Incompatible materials** Strong oxidizing agents

**Hazardous decomposition products** Carbon monoxide, Carbon dioxide ($CO_2$), Nitrogen oxides (NOx)

## 11. TOXICOLOGICAL INFORMATION

**Product Information**

| | |
|---|---|
| **Inhalation** | No information available |
| **Eye contact** | No information available |
| **Skin contact:** | No information available |
| **Ingestion** | No information available |

**The following values are calculated based on chapter 3.1 of the GHS document** .

| | | |
|---|---|---|
| **ATEmix (oral)** | 5,005.00 | mg/kg |
| **ATEmix (dermal)** | 3,603.60 | mg/kg |

| | |
|---|---|
| **Skin corrosion/irritation** | No information available |
| **Serious eye damage/irritation** | No information available |
| **Respiratory or skin sensitization** | No information available |
| **Germ cell mutagenicity** | No information available |
| **Carcinogenicity** | Printing inks: IARC Classification: Group 3 (Non-classified Human Carcinogen)<br>Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA |

## 12. ECOLOGICAL INFORMATION

| | |
|---|---|
| **Ecotoxicity** | The environmental impact of this product has not been fully investigated. |
| **Persistence and degradability** | No information available. |
| **Bioaccumulation** | There is no data for this product. |
| **Other adverse effects** | No information available. |

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

| | |
|---|---|
| **Waste from residues/unused products** | Dispose in accordance with federal, state and local regulations. |

## 14. TRANSPORT INFORMATION

| | |
|---|---|
| **DOT** | Not regulated |
| **TDG** | Not regulated |
| **MEX** | Not regulated |
| **ICAO (air)** | Not regulated |
| **IATA** | Not regulated |
| **IMDG** | Not regulated |
| **RID** | Not regulated |
| **ADR** | Not regulated |
| **ADN** | Not regulated |

## 15. REGULATORY INFORMATION

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |
| **DSL/NDSL** | Complies |
| **EINECS/ELINCS** | Complies |
| **ENCS** | Complies |
| **IECSC** | Complies |
| **KECL** | Complies |
| **PICCS** | Complies |
| **AICS** | Complies |

**Legend:**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute health hazard** | No |

| | |
|---|---|
| **Chronic Health Hazard** | No |
| **Fire hazard** | Yes |
| **Sudden release of pressure hazard** | No |
| **Reactive Hazard** | No |

**CWA (Clean Water Act)**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Right-to-Know Regulations**

**US State Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Paraffin wax<br>8002-74-2 | X | X | X |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

**Model Number List**
The model number of the cassette covered by this Safety Data Sheet is as follows.

| | | | | |
|---|---|---|---|---|
| TZe-133 | TZe-223 | TZe-233 | TZe-243 | TZe-253 |
| TZe-263 | TZe-M33 | TZe-Z133 | TZe-Z223 | TZe-Z233 |
| TZ-133 | TZ-143 | TZ-153 | TZ-223 | TZ-233 |
| TZ-243 | TZ-253 | TZ-263 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NFPA** | **Health hazards** | 0 | **Flammability** | 1 | **Instability** | 0 | **Section 9: Physical and chemical properties** - |
| **HMIS** | **Health hazards** | 0 | **Flammability** | 0 | **Physical hazards** | 0 | **Personal protection** X |

| | |
|---|---|
| **Issuing Date** | 08-Nov-2010 |
| **Revision Date** | 28-Jul-2020 |
| **Revision Note** | Safety data sheet number changed.<br>Revision number corrected.<br>SDS sections updated |

As the Product Safety Information Sheet (PSIS) has been abolished, the model number has been added to "Section 16. Other Information"

**Disclaimer**

**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).**

**End of Safety Data Sheet**