

Revision Date: 15-Nov-2018

Issuing Date: 08-Nov-2010

Revision Number: 16

Safety data sheet number: 5VA926-M1-1

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

# 1. IDENTIFICATION

Product identifier

Product Name TZe cassette ribbon, TZ cassette ribbon (Black)

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 No information available

Uses advised against No information available

Details of the supplier of the safety data sheet

<u>Manufacturer Address</u> 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 +1-800-424-9300

# 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

May be harmful in contact with skin

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## Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

81 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

81 % 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	*
Carbon Black	1333-86-4	2-9	*
Wax	**	**	*
Resin	**	**	*
Polyethylene terephthalate film	**	**	*
Organic filler	**	**	*
Additive	**	**	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

\* Trade secret

# 4. FIRST AID MEASURES

## **Description of first aid measures**

**Inhalation** Remove to fresh air.

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

Consult a physician.

**Skin contact:** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

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# 5. FIRE-FIGHTING MEASURES

surrounding environment.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

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

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

### **Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas

## Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

The information required is contained in this Safety Data Sheet

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# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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## 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 8002-74-2	TWA: 2 mg/m <sup>3</sup> fume	(vacated) TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> fume
Carbon Black 1333-86-4	TWA: 3 mg/m³ inhalable particulate matter	TWA: 3.5 mg/m <sup>3</sup> (vacated) TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

## **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** No special protective equipment required.

**Skin and body protection**No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**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 black

Odor Slight wax odor

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available

Melting point / freezing point

Boiling point / boiling range
Flash point

No information available
No information available
No information available

Evaporation rate No data available Flammability (solid, gas) No data available

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Flammability Limit in Air

Upper flammability limit: Lower flammability limit: Vapor pressure

Vapor pressure
Vapor density
Relative density
Water solubility

Solubility(ies)
Partition coefficient
Autoignition temperature

Decomposition temperature Kinematic viscosity Dynamic viscosity

Dynamic viscosity Explosive properties

Oxidizing properties

Other Information
Softening point
Molecular weight
VOC Content (%)
Liquid Density
Bulk density

No data available No data available

No data available No data available No information available

negligible No information available

No data available No information available Not determined

No data available No information available No information available

No information available

No information available No information available No information available No information available

No information available

Explosive limits of toner particles suspended in air

approximately equal to that of coal dust.

None known

**Reactivity** No information available.

10. STABILITY AND REACTIVITY

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied

Incompatible materials None known based on information supplied

Hazardous decomposition products Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx).

# 11. TOXICOLOGICAL INFORMATION

### **Product Information**

**Inhalation** No information available

Eye contact No information available

**Skin contact:** May be harmful in contact with skin

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**Ingestion** No information available

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

**ATEmix (oral)** 7,359.10 mg/kg **ATEmix (dermal)** 3,291.80 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 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.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Carbon Black	-	-	-	5600: 24 h Daphnia
1333-86-4				magna mg/L EC50

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 of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

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# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

<u>IATA</u> Not regulated

<u>IMDG</u> 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.



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SARA 311/312 Hazard Categories

Acute health hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

### 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.

## **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Carbon Black - 1333-86-4	Carcinogen

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

## **US State Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Paraffin wax 8002-74-2	X	X	X
Carbon Black 1333-86-4	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-111	TZe-111V	TZe-121	TZe-121V	TZe-131
TZe-1312PK	TZe-131S	TZe-131V	TZe-141	TZe-141V
TZe-151	TZe-151V	TZe-161	TZe-161V	TZe-211
TZe-211V	TZe-221	TZe-221V	TZe-221V2	TZe-231
TZe-2311	TZe-2312PK	TZe-2314PK	TZe-231CIV	TZe-231S

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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-FX251	TZ-FX261	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-S111
TZ-S121	TZ-S131	TZ-S141	TZ-S151	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			

NFPAHealth hazards0Flammability0Instability0Section 9: Physical and chemical properties -HMISHealth hazards0Flammability0Physical hazards0Personal protectionX

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Revision Note SDS sections updated.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**