

# TOSHIBA MATERIAL SAFETY DATA SHEET

Date of Preparation : DECEMBER 15, 2003  
Date of Revised :

MSDS : T500FKWU1W  
Page 1 of 4

## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : T-500F/T-500FA Black Toner  
Used for : Toshiba Facsimile, e-STUDIO 50F  
Company Name : Toshiba TEC Corporation  
Address : 1-1, Kanda nishikichou, Chiyoda-ku, Tokyo 101-8442, Japan  
Telephone Number : +81-3-3438-6854

Contact : (1) Toshiba America Information Systems, Inc.  
Emergency Telephone. No. : +1-800-424-9300  
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(3) Toshiba TEC Germany Imaging Systems GmbH  
Telephone. No. : +49-2131-1245-0  
(European Headquarter)

(4) Toshiba (Australia) Pty, Ltd.  
Telephone. No. : +61-2-98873322

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT(S)</u>	<u>CAS No.</u>	<u>wt.%</u>
Styrene acrylate copolymer	---	>47.0
Polypropylene	---	<4
Paraffin wax	---	<4
Iron oxide	---	<45
	-----	Trade Secret

## SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview : Odorless black fine powder.  
Not a highly flammable, but when suspended in air, is combustible as with most organic powders.

### POTENTIAL HEALTH EFFECTS

EYE EFFECTS : Solid or dusts may cause irritation or corneal injury.

SKIN EFFECTS : Essentially nonirritating to skin.

Skin absorption is unlikely due to physical properties.

INGESTION EFFECTS : Oral toxicity is believed to be low.

INHALATION EFFECTS : Minimal irritation to respiratory track may occur.

### FIRE AND EXPLOSION:

SENSITIVITY TO MECHANICAL IMPACT : None

SENSITIVITY TO STATIC CHARGE : None

# MATERIAL SAFETY DATA SHEET

Product Identity

: T-500F/T-500FA Black Toner

MSDS : T500FKWU1W

Page 2 of 4

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## SECTION 4 FIRST AID MEASURES

- Eye Contact : Flush eyes immediately with plenty of water for at least 15 minutes.
- Skin Contact : Flush with plenty of water. Use soap.
- Ingestion : No adverse effects anticipated by this route of exposure incidental to proper handling.
- Inhalation : Remove to fresh air. If effects occur, consult medical personnel.

## SECTION 5 FIRE FIGHTING MEASURES

- Flash Point : No data available
- Flammable Limits : No data available
- Extinguishing Media : Water fog, dry chemical, foam or CO<sub>2</sub>.
- FIRE-FIGHTING EQUIPMENT : Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Minimize the release of particles. Wear personal protective equipment.

Do not use Vacuum cleaner.

After by lightly spraying with water to prevent development of dust, spills should be swept up or wiped up. Then residuals can be removed with soap and water.

Preferred to use the material in a place, covering up the floor and surrounding matters with suitable sheets such as paper, in a case of being not fit to scrub the floor with water. These used sheets should be wrapped up in spills and transfer into a suitable container for disposal.

Garments may be washed or dry cleaned, after removal of loose toner.

## SECTION 7 HANDLING AND STORAGE

- HANDLING : Avoid creating dust. Clean up all spills promptly.  
Inhalation and contact with skin or eyes should be avoided.  
Provide general ventilation. Good general ventilation should be sufficient for most conditions.
- STORAGE : Store in a cool, well ventilated place away from flames and spark-producing equipment.  
May toners be preferred to use or to handle at the suitable place without concerning about smudges to which are given rise releasing them.
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# MATERIAL SAFETY DATA SHEET

Product Identity

: T-500F/T-500FA Black Toner

MSDS : T500FKWU1W

Page 3 of 4

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## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

#### OSHA PELs (TWA)

as the product : 15mg/m<sup>3</sup> (Total dust)  
5mg/m<sup>3</sup> (Respirable fraction)

Other substances : Not listed

#### ACGIH TLVs (TWA)

as the product : 10mg/m<sup>3</sup> (Total dust)  
3mg/m<sup>3</sup> (Respirable fraction)

Other substances : Not listed

#### DFG-MAK (TWA)

as the product : 4mg/m<sup>3</sup> (Inhalable fraction)  
1.5mg/m<sup>3</sup> (Respirable fraction)

All substances : Not listed

#### NOHSC (TWA)

All substances : Not listed

Eye Protection : No precautions should be needed under normal use.

Skin Protection : No precautions should be needed under normal use.

Respiratory Protection : For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved dust respirator.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Black fine powder

ODOR : None

Boiling Point : Not applicable

Melting Point : Not applicable

Specific Gravity(H<sub>2</sub>O=1) : 1.6

Vapor Pressure : Not applicable

Vapor Density (Air=1) : Not applicable

% Volatile : Not applicable

Solubility in Water : Negligible

pH Value : Not applicable

## SECTION 10 STABILITY AND REACTIVITY

Stability : This is a stable product.

Incompatibility : None

Hazardous Decomposition Products

: CO or NO<sub>x</sub> (by high heat and fire)

Hazardous Polymerization: : Will not occur.

## SECTION 11 SUPPLEMENTAL HEALTH INFORMATION

Mutagenicity : Negative in the Ames test.

Carcinogenicity : : No data available

Chronic Effects : : No data available

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# MATERIAL SAFETY DATA SHEET

Product Identity

: T-500F/T-500FA Black Toner

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Page 4 of 4

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## SECTION 12 ECOLOGICAL INFORMATION

NONE

## SECTION 13 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD : Waste must be disposed of in accordance with country and local environmental control regulations.

## SECTION 14 TRANSPORTATION INFORMATION

This is not a hazardous product.

International Transport Information

UN Classification Number : None allocated.

## SECTION 15 REGULATORY INFORMATION

USA Information : All chemical substances in this product comply with all applicable rules or orders under TSCA.

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

## SECTION 16 OTHER INFORMATION

National Fire Protection Association (NFPA) Classification :

Flammability : 1

Reactivity : 1

Health : 1

( 0 = insignificant, 1 = slight )

References : H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991). Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, *Fundamental and Applied Toxicology* 17, pp. 280-299.

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