

# TOSHIBA MATERIAL SAFETY DATA SHEET

Date of Preparation : November 14, 2003

MSDS : T3511YUU6W

Date of Revised : 'January 1, 2008

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## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : T-3511 -Y Yellow Toner  
Used for : Toshiba Copiers, e-STUDIO 3511 and 4511  
Company Name : Toshiba TEC Corporation  
Address : 2-17-2, Higashigotanda, Shinagawa-ku, Tokyo, 141-8664, Japan  
Telephone Number : +81-3-6422-7753  
Manufacturer Name : (1) Toshiba Tec Information Systems (ShenZhen) Co.,Ltd  
Area 16, Dayang Development Zone, Fuyong, Baoan District,  
Shenzhen City, P.R.China 518103

Contact : (1) Toshiba America Business Solutions, Inc.  
Emergency Telephone. No. : +1-800-424-9300  
For calls within the U.S. only.  
(2) Toshiba of Canada Limited  
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For calls within Canada only.

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT(S)</u>	<u>CAS No.</u>	<u>wt.%</u>
Polyester resin	---	80-90
Organic Pigment	---	3-10
Wax	---	3-10
Amorphous Silica	7631-86-9	2 - 4
Organic Metal Complex	---	<2
Titanium dioxide	13463-67-7	<1
---	---	TRADE SECRET

## SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview : If used as intended, the product does not present acute or chronic health hazard.

Physical Hazards : This product is not classified as flammable or combustible.  
It will burn in case of fire.  
Avoid contact with strong oxidizers such as chromate, bromate and nitrates.

Routes of Exposure : Inhalation, dermal contact, incidental ingestion

Inhalation : Excessive inhalation may cause irritation of the nose, throat and respiratory tract.

Eye Contact : Non-irritant.

Dermal Contact : Non-irritant, non-sensitiser.

Ingestion : Not currently known.

Chronic Effects : See Section 11 Supplemental Health Information.

Carcinogenicity : See Section 11 Supplemental Health Information.

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Reproductive/Developmental : Not identified.  
Target Organs : Prolonged breathing of high concentrations may cause adverse effects on the respiratory system.  
Signs and Symptoms of Exposure : Prolonged exposure to dusts of this product may irritate the respiratory system.  
Medical Conditions Aggravated by Exposure to This Product : Respiratory disorders, such as asthma, may be aggravated by prolonged exposure to high concentrations of this product.

## SECTION 4 FIRST AID MEASURES

Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician.  
Skin Contact : Wash with soap and water. Wash clothing before reuse. If irritation occurs or is persistent, seek medical attention.  
Ingestion : Dilute stomach contents with several glasses of water.  
Inhalation : Remove from exposure area to fresh air immediately. Contact a physician if there is any difficulty in breathing or other signs of distress.

## SECTION 5 FIRE FIGHTING MEASURES

General Hazard : Product will burn in case of fire.  
Flash Point : Not applicable  
Flammable Limits : Not applicable  
Autoignition Temperature : Not applicable  
Flammability classification : Not applicable  
Extinguishing Media : Foam, halon, carbon dioxide, dry chemical & water fog.  
Unusual Fire & Explosion Hazard : Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.  
Fire Fighting Procedures : None  
Hazardous Combustion Products : Carbon monoxide, carbon dioxide and smoke.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Spills or Leaks : Vacuum-clean spilled toner and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

## SECTION 7 HANDLING AND STORAGE

Handling : Avoid dust, keep away from ignition sources.  
Prevention of Fire and Explosion : This material is capable of creating a dust explosion. Keep away from heat, sparks & flame.  
Storage : Keep container in cool and dry area.  
Hygienic Practices : Avoid inhalation and ingestion. Avoid getting in eyes, on skin or clothing. Wash hands thoroughly after handling, and before eating, drinking, or smoking.

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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

Engineering Controls : Maintain adequate ventilation.

Eye Protection : Not required under intended use.

Skin Protection : Not required under intended use.

Respiratory Protection : Not required under intended use.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Fine solid powder

Color : Yellow

Scent : Odorless

Melting Point : 110 - 150 degree (Softening point)

Specific Gravity(H<sub>2</sub>O=1) : 1.1 - 1.5

Vapor Pressure : Not applicable

Vapor Density (Air=1) : Not applicable

Evaporation Rate : Not applicable

Solubility in Water : Negligible

pH Value : Not a water-based product, therefore not applicable.

## SECTION 10 STABILITY AND REACTIVITY

Stability : Stable

Incompatibility : Not identified.

### Hazardous Decomposition Products

: Carbon monoxide and carbon dioxide.

Hazardous Polymerization: : Will not occur.

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## SECTION 11 SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity : LD50 is greater than 2,500mg/kg.  
(This was the highest attainable mass.)  
Acute inhalation : LC50(4H) is in excess of 5.13mg/l.  
(This was the highest attainable concentration.)  
Eye irritation : Non-irritant.  
Skin irritation : Non-irritant.  
Skin sensitization : Non-sensitiser.  
Mutagenicity : Negative in the Ames test.  
Carcinogenicity : None known  
Chronic Effects : None known

## SECTION 12 ECOLOGICAL INFORMATION

Aquatic environment : LC50 is greater than 1000mg/L (fish)  
: EC50 is greater than 1000mg/L (daphnia)  
(This was the highest attainable mass.)

## SECTION 13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation.  
Empty plastic container may be recycled.

## SECTION 14 TRANSPORTATION INFORMATION

Special Precautions : None  
International Transport Information  
UN Classification Number : Not applicable  
DOT Identification Number : Not applicable  
Domestic Transportation : Not applicable  
Other Information : Not applicable

## SECTION 15 REGULATORY INFORMATION

IARC : See section 11.  
US/Canada Information  
OSHA Hazard Communication Standard, 29CFR 1910. 1200  
: Not regulated.  
Toxic Substance Control Act (TSCA)  
: All chemical substances in this product comply with  
all applicable rules or orders under TSCA.  
RCRA (40 CFR 261) : Product or components not listed.  
CERCLA/SARA Information : Not regulated.  
NTP Annual Report on Carcinogens  
: Not listed as an NTP carcinogen.  
California Proposition 65 : Neither toner, or any of the components, are listed as chemicals known  
to the State of California to cause cancer or reproductive system effects.  
Controlled Products Regulations(Canada)  
: This product has been classified in accordance with the hazard criteria  
of the CPR.

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Workplace Hazardous Materials Information System(Canada)

: No toxicology information available

Other State Regulations : Not listed in the New Jersey Right to Know List,

Pennsylvania Hazardous Substance List, and Massachusetts Substance List.

U.S./Canada Label Statements

: LOW HAZARD FOR RECOMMENDED HANDLING. Minimize dust generation and accumulation. Use with adequate ventilation.

## EU Information

Label Information According to Directives 67/548 EEC & 1999/45 EC

Symbol & Indication : Not required

Risk Phrase : Not required

Safety Advise Phrase : Not required

76/769/EEC : All chemical substances in this product comply with all applicable rules or order under 76/769/EEC.

National requirement : : No specific regulations or restrictions.

## SECTION 16 OTHER INFORMATION

National Fire Protection Association (NFPA) Classification :

Flammability : 1

Reactivity : 0

Health : 0

( 0 = insignificant, 1 = slight )

Hazardous Materials Information Systems (HMIS) :

Red (Flammability) : 1

Yellow (Reactivity) : 0

Blue (Acute Effects) : 0

( 0 = insignificant, 1 = slight )

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Abbreviation

- : (1) OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health Administration (USA).  
(2) ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA).  
(3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft.  
(4) TWA stands for Time Weighted Average.  
(5) NTP stands for National Toxicology Program (USA).  
(6) NIOSH stands for National Institute for Occupational Safety and Health (USA).  
(7) DOT stands for Department of Transportation (USA).  
(8) NOHSC stands for National Occupational Health and Safety Commission (Australia).

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