TOSHIBA MATERIAL SAFETY DATA SHEET

Date of Preparation Date of Revised

: January 6, 2006

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SECTION 1 CHEMICAL	PRODUCT AND COMPANY IDENTIFICATION
Product Name	: T-1640 Black Toner
Used for	: Toshiba Copiers, e-STUDIO 163, 165, 203 and 205
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 Copying Machine Co.,LTD
	District No. 27 Bao An
	ShenZhen China 518101

Contact	: (1) Toshiba America Business S	(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		
	Telephone. No.	: +1-905-405-3500	
		For calls within Canada only.	

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS No.	<u>wt.%</u>
Polyester resin		85-95
Carbon black	1333-86-4	4-8
Wax		3-6
Silica		<1
Organic Metal Complex		<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.
Routes of Exposure	Avoid contact with strong oxidizers such as chromate, bromate and nitrates.Inhalation, dermal contact, incidental ingestion

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Inhalation	: Excessive inhalation may cause irritation of the nose, throat and respiratory tract.
Euro Constant	
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.
Reproductive/Developmental	: Not identified.
Target Organs	: Prolonged breathing of high concentrations may cause
	adverse effects on the respiratory system.
Signs and Symptoms of Expo	sure
	: Prolonged exposure to dusts of this product may irritate the respiratory system
Medical Conditions Aggravate	ed by Exposure to This Product
	: Respiratory disorders, such as asthma, may be aggravated
	hy proton and even over to high concentrations of this product

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

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.

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SECTION 7	HANDLING A	ND 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 Practi	ces :	Avoid inhalation and ingestion. Avoid getting in eyes, on skin or clothing. Wash hands thoroughly after handling, and before eating, drinking, or smoking.	
SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION			
Exposure Limit	S		
OSHA PELS	(TWA)		

, OSHA PELs (TWA)	
as the product	: 15mg/m ³ (Total dust)
	5mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
ACGIH TLVs (TWA)	
as the product	: 10mg/m ³ (Total dust)
	3mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
DFG-MAK (TWA)	
as the product	: 4mg/m ³ (Inhalable fraction)
	1.5mg/m ³ (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	: Black
Scent	: Odorless
Melting Point	: 110 - 150 degree (Softening point)
Specific Gravity(H2O=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.

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SECTION 10 STABILITY AND REACTIVITY

Stability	: Stable	
Incompatibility	: Not identified.	
Hazardous Decomposition Products		
	: Carbon monoxide and carbon dioxide.	
Hazardous Polymerization:	: Will not occur.	

SECTION 11 SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity
Acute inhalation
Eye irritation
Skin irritation
Skin sensitization
Mutagenicity
Carcinogenicity :
Chronic Effects :
Skin irritation Skin sensitization Mutagenicity Carcinogenicity :

SECTION 12 ECOLOGICAL INFORMATION

Aquatic environmennt	: LC50 is greater thar 0.7mg/L	(fish)	
	: EC50 is greater thar 0.7mg/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	

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SECTION 15 REGULAT	ORY INFORMATION
IARC	: See section 11.
US/Canada Information	
OSHA Hazard Communica	ation 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 Ca	arcinogens
	: 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 Regul	ations(Canada)
	: This product has been classified in accordance with the hazard criteria
	of the CPR.
Workplace Hazardous Ma	terials Information System(Canada)
	: No toxicology information available
Other State Regulations	: Carbon black is listed in the New Jersey Right to Know List,
	Pennsylvania Hazardous Substance List, and Massachusetts Substance List.
U.S./Canada Label Stater	
	: LOW HAZARD FOR RECOMMENDED HANDLING. Minimize dust
	generation and accumulation. Use with adequate ventilation.
EU Information	
	ng 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.
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SECTION 16 OTHER INFORMATION

National Fire Protection	Association (NFPA) Classification :
Flammability	: 1
Reactivity	: 0
Health	: 0
	(0 = insignificant, 1 = slight)
Hazardous Materials Info	ormation Systems (HMIS) :
Red (Flammability)	: 1
Yellow (Reactivity)	: 0
Blue (Acute Effects)	: 0
	(0 = insignificant, 1 = slight)

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References	Carcinoge Processes Compound H. Muhle, H. Ernst, F S. Takena Pulmonary	6) IARC Monographs on the Evalu- nic Risks of Chemicals to Humans and Printing Inks, Carbon Black a ds, Lyon, pp. 149-261. B. Bellmann, O. Creutzenberg, C. R. Kilpper, J. C. MacKenzie, P. Mo ka, and R. Mermelstein (1991). V Response to Toner upon Chronic undamental and Applied Toxicolog	s, Vol. 65, Printing and Some Nitro Dasenbrock, rrow, U. Mohr, c Inhalation Exposure
Abbreviation	Occupa (2) ACGIH Confer (3) DFG-W Deutsc (4) TWA si (5) IARC si (6) NTP st (7) NIOSH Health (8) DOT st	ands for Department of Transport	etration (USA). alue under American Hygienists (USA). atzkonzentrationen under Research on Cancer. ram (USA). ccupational Safety and ation (USA).
Prepared by	Quality As	EC Corporation surance Department mi-cho, Mishima-shi, Shizuoka-ker Japan	٦,

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