TOSHIBA MATERIAL SAFETY DATA SHEET

Date of Preparation Date of Revised

: November 28, 1997

: January 1, 2008

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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION					
Product Name	: T-2460 Black Toner				
Used for	: Toshiba Copiers, DP2460 and 2470				
Company Name	: Toshiba TEC Corporation				
Address	: 1-1, Kanda nishikichou, Chiyoda-ku, Tokyo 101-8442, Japan				
Telephone Number	: +81-3-3438-6854				
Manufacturer Name	 (1) Toshiba America Business Solutions, Inc. Toner Products Division (Mitchell Plant) 901 North Foster Street, Mitchell, SD. 57301-0070 U.S.A. (2) 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 Telephone. No. : +1 905 470 3500 For calls within Canada only. (3) Toshiba (Australia) Pty, Ltd. Telephone. No. : +61-2-98876000 				

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT(S)</u>	CAS No.	<u>wt.%</u>	
Styrene acrylate copolymer	25767-47-9	88 - 91	
	29497-14-1		
	26634-89-9		
Carbon black	1333-86-4	7 - 8	
Polypropylene	9003-07-0	2 - 4	
Amorphous Silica	7631-86-9	<1	

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.
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
o y i i	: 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

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 Haz	ar	d
	:	Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
Fire Fighting Procedures	:	None
Hazardous Combustion Produ	ct	S
	:	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.

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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.				
	E CONTROLS/PERSONAL PROTECTION				
Exposure Limits					
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 DFG-MAK (TWA)	: Not listed				
as the product	: 4mg/m ³ (Inhalable fraction) 1.5mg/m ³ (Respirable fraction)				
All substances NOHSC (TWA)	: Not listed				
All substances	: Not listed				
Engineering Controls	: Maintain adequate ventilation.				

Eye Protection Skin Protection Respiratory Protection

Not required under intended use.Not required under intended use.

: 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 P	roducts
	: Carbon monoxide and carbon dioxide.
Hazardous Polymerization:	: Will not occur.

SECTION 11 SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity	: LD50 is greater than 5,000mg/kg.			
	(This was the highest attainable mass.)			
Acute inhalation	: LC50(4H) is in excess of 4.88mg/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 :	: In 1996, the IARC classified carbon black as a Group 2B carcinogen (possible human carcinogen).			
Chronic Effects :	: In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92 % of the rats in			
	the high concentration (16 mg/m ³)exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4			
	mg/m ³) exposure group. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust retained in the lungs for a prolonged period.			

SECTION 12 ECOLOGICAL INFORMATION

This material has not been tested concerning environmental effects (fish toxicity, bird toxicity, invertebrate toxicity, phyto-toxicity and environmental fate).

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 Informa	ati	on
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 INFO	RMATION	
IARC	: See secti	on 11.	
US/Canada Information			
OSHA Hazard Communic	ation Standar	d, 29CFR 1910. 1200	
	: Not regul	ated.	
Toxic Substance Control	Act (TSCA)		
	: All chemi	cal substances in this p	product comply with
	all applica	able rules or orders une	der TSCA.
RCRA (40 CFR 261)	: Product c	or components not liste	d.
CERCLA/SARA Information	oi: Not regul	ated.	
NTP Annual Report on C	arcinogens		
	: Not listed	as an NTP carcinoger	1.
California Proposition 65		•	ponents, are listed as chemicals known
Controlled Products Regu			e cancer or reproductive system effects.
	•	•	I in accordance with the hazard criteria
	of the CP		
Workplace Hazardous Ma	aterials Inform	ation System(Canada)	
	: No toxico	logy information availa	ble
Other State Regulations	: Carbon b	lack is listed in the Nev	v Jersey Right to Know List,
	Pennsylv	vania Hazardous Subst	ance List, and Massachusetts Substance List.
U.S./Canada Label State			
			ENDED HANDLING. Minimize dust
	generatio	n and accumulation. L	Jse with adequate ventilation.
EU Information			
Label Information Accordi	na to Directive	es 67/548 EEC & 1999	/45 EC
Symbol & Indication	: Not requi		
Risk Phrase	: Not requi		
Safety Advise Phrase	: Not requi		
76/769/EEC	•		product comply with all
		e rules or order under	
National requirement :	• •	ic regulations or restric	

SECTION 16 OTHER INFORMATION

National Fire Protection A	Asso	ciation (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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Notice	: Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Toshiba Corporation extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.
References	 IARC (1996) IARC Monographs on the Evaluation of the Carcinogenic Risks of Chemicals to Humans, Vol. 65, Printing Processes and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp. 149-261. 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.
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) IARC stands for International Agency for Research on Cancer. (6) NTP stands for National Toxicology Program (USA). (7) NIOSH stands for National Institute for Occupational Safety and Health (USA). (8) DOT stands for Department of Transportation (USA). (9) NOHSC stands for National Occupational Heath and Safety Commission (Australia).
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