TOSHIBA MATERIAL SAFETY DATA SHEET

Date of Preparation Date of Revised

: November 14, 2003

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SECTION 1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
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Product Name	: I-3511Y Yellow Ioner
Used for	: Toshiba Copiers, e-STUDIO 3511 and 4511
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 TEC Corporation, Mishima Works
	6-78 Minami-cho, Mishima-shi, 411-8520 Japan

Contact

: (1) Toshiba America Information	Systems, 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

		Trade Secret
Organic Metal Complex		<2
Silica	68909-20-6	2 - 4
Wax		3-10
Organic Pigment		3-10
Polyester resin		80-90
INGREDIENT(S)	CAS No.	<u>wt.%</u>

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview	: If used as intended, the product does not present acute or chronic
Dhuciaal Llagarda	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

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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	su	re
	:	Prolonged exposure to dusts of this product may irritate the respiratory system.
Medical Conditions Aggravate	d	by Exposure to This Product
	:	Respiratory disorders, such as asthma, may be aggravated
		by prolonged experience 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

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. **MATERIAL SAFETY DATA SHEET**

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	DLING AND STORAGE
Handling	: Avoid dust, keep away from ignition sources.
Prevention of Fire an	d 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.
SECTION 8 EXP	OSURE CONTROLS/PERSONAL PROTECTION
Exposuro Limito	

Exposure Limits	
OSHA PELs (TWA)	
as the product	: 15mg/m ³ (Total dust)
	5mg/m ³ (Respirable fraction)
All substances	: Not listed
ACGIH TLVs (TWA)	
as the product	: 10mg/m ³ (Total dust)
	3mg/m ³ (Respirable fraction)
All 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

: Fine solid powder
: Yellow
: Odorless
: 110 - 150 degree (Softening point)
: 1.1 - 1.5
: Not applicable
: Not applicable
: Not applicable
: Negligible
: 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	: LD50 is greater than	2,500mg/kg.
	(This was the highest attaina	ıble mass.)
Acute inhalation	: LC50(4H) is in excess of	5.13mg/l.
	(This was the highest attaina	ble 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

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 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 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.			
Workplace Hazardous Materials 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 Li	st.		
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 & 88/379 EEC			
Symbol & Indication : Not required			
Risk Phrase : Not required			
Safety Advise Phrase : Not required			
EEC Directive(76/548 EEC, 79/831 EEC, 92/32 EEC)			
: All chemical substances in this product comply with all			
applicable rules or order under EEC Directive.			
The Subject of Specific Provisions in Relation to Protection of Man or the Environment. Directive 76/769/E	EC		
: Not required			
National requirement : : No specific regulations or restrictions.			
SECTION 16 OTHER INFORMATION			

 National Fire Protection Association (NFPA) Classification :

 Flammability
 :
 1

 Reactivity
 :
 0

 Health
 :
 0

 Variable
 :
 0

 Hazardous Materials Information Systems (HMIS) :
 Red (Flammability)
 :
 1

 Yellow (Reactivity)
 :
 0
 0

 Blue (Acute Effects)
 :
 0

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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.	
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 Heath and Safety Commission (Australia). 	
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