

# MATERIAL SAFETY DATA SHEET

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MSDS 010315US  
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## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : CARRIER EFC-65  
 Used for : Process Unit "PU-1600" ,  
 "PU-1600N" for Copier "DP-1600" , "DP-2000"and "DP-2500"

Company Name : TOSHIBA TEC CORPORATION  
 Address : 1-1, Kanda Nishikicho, Chiyoda-ku, Tokyo 101-8442, Japan  
 Telephone Number : +81-3-3438-6854

Manufacturer Name : (1) TOSHIBA TEC CORPORATION, Mishima Business Center  
 6-78, Minami-cho, Mishima-shi, Shizuoka-ken, 411-8520 Japan

Supplier : (1)Toshiba America Business Solutions, Inc.  
 Emergency Tel. No. :800-424-9300  
 For calls within the U.S. only.

(2)Toshiba of Canada Limited  
 Tel. No.:905-405-35 For calls within Canada only.

(3)Toshiba Tec Germany Imaging Systems Gmbh  
 Tel. No.: :+49-2131-1245-0

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

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT(S)</u>	<u>CAS No.</u>	<u>wt.%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Mn-Mg-Sr Ferrite				
Iron oxide	1309-37-1	aproxxy.70	10 mg/m3	
Manganese oxide	1344-43-0	aproxxy.25	Not listed	See section 8
Magnesium oxide	1309-48-4	aproxxy.4	15 mg/m3	
Strontium oxide	1314-11-0	aproxxy.1	Not listed	

## SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview : Gray black powder, odorless

Routes of Exposure : Inhalation, dermal contact, incidental ingestion  
 Inhalation : NO data

Eye Contact : Minimally irritating. You should remove with water.  
 Dermal Contact : Not irritating. You don't have to wash out immediately.  
 Ingestion : Not harmful if swallowed. But don't swallow this product intentionally.

Chronic Effects/Carcinogenicity :  
 No data

Reproductive/Developmental: No data  
 Target Organs : No data

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Signs and Symptoms of Exposure :

No data

Medical Conditions Aggravated by Exposure to This Product :

No data

## SECTION 4 FIRST AID MEASURES

Eye Contact : Flush gently with water and consult physician.

Skin Contact : Wash with soap and water.

Ingestion : Consult physician.

Inhalation : Remove from exposure.

## SECTION 5 FIRE FIGHTING MEASURES

General Hazard : No data

Flash Point : No data

Flammable Limits : No data

Autoignition Temperature : No data

Flammability classification : No data

Extinguishing Media : Water, Foam, dry chemical, Extinguisher

Unusual Fire & Explosion Hazard : No data

Fire Fighting Procedures : Extinguish with water, foam, dry chemical or extinguisher

Hazardous Combustion Products : None

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Spills or Leaks : Sweep up or vacuum

## SECTION 7 HANDLING AND STORAGE

Handling : Use of fire strictly prohibited

Prevention of Fire and Explosion :

Keep away from heat & flame.

Storage : The product on the pallet is stored in a warehouse with room temperature.

less than 50C and relative humidity less than 90%.

Hygienic Practices : None

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	OSHA (TWA/PEL as the product)	15mg/m3 (Total dust)
		5mg/m3 (Respirable dust)
	ACGIH (TWA/TLV as the product)	10mg/m3 (Inhalable dust)
		3mg/m3 (Respirable dust)
	DFG-MAK	4mg/m3 (Inhalable dust)
		1.5mg/m3 (Respirable dust)

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Engineering Controls : None  
Eye Protection : Protecting glasses  
Skin Protection : Use Leather gloves for hand protection.  
Respiratory Protection : Dust respiratory mask

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Powder  
Color : Gray black  
Scent : None  
Melting Point : Above 1300C  
Specific Gravity(H<sub>2</sub>O=1) : 5.0(25C)  
Vapor Pressure : Not applicable  
Vapor Density (Air=1) : Not applicable  
Evaporation Rate : Not applicable  
Solubility in Water : Insoluble  
pH Value : Not applicable

## SECTION 10 STABILITY AND REACTIVITY

Stability : Stable  
Incompatibility : None  
Hazardous Decomposition Products : None  
Hazardous Polymerization: None

## SECTION 11 SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity : LD50 is greater than 5,000mg/kg.  
Acute inhalation : NO data  
Eye irritation : Minimally irritating(rabbits)  
Skin irritation : No irritating(rabbits)  
Skin sensitization : Non sensitization. (guinea pigs)  
Mutagenicity : Negative in Ames test.  
Carcinogenicity : Iron oxide(one of ingredients) is listed in IARC MONOGRAPHS  
(Group 3)  
and ACGIH 1999 TLVs and BEI(A4)  
Chronic Effects : None

## SECTION 12 ECOLOGICAL INFORMATION

No data

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E 200 + 250

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SECTION 13 DISPOSAL CONSIDERATION

Dispose of waste in accordance with applicable federal, state and local regulation.

SECTION 14 TRANSPORTATION INFORMATION

Special Precautions : None  
International Transport Information  
UN Classification Number : None  
DOT Identification Number : No data  
Domestic Transportation : No data  
Other Information : None

SECTION 15 REGULATORY INFORMATION

US/Canada Information

OSHA Hazard Communication Standard, 29CFR 1910. 1200 :

Be considered a hazardous chemical

Toxic Substance Control Act (TSCA) : All ingredients are listed in TSCA Inventory.

RCRA (40 CFR 261) : Not applicable

CERCLA/SARA Information :

This product contains the following chemicals subject to the reporting requirements of section 313 of Title 3 of the Superfund Amendments and Reauthorization Act of 1986 , and 40 CFR part 372 (for CAS number and weight percentages, refer to SECTION 2) :

Manganese Compounds

NTP Annual Report on Carcinogens : Not listed

IARC : This product contains the following chemical listed in IARC

MONOGRAPHS.

Ferric oxide (CAS No. 1309-37-1) Group 3

California Proposition 65 : Not listed

Other State Regulations : Unknown

U.S./Canada Label Statements : No data

EU Information

Label Information According to Directives 67/548 EEC & 88/379 EEC : None

Symbol & Indication : None

Risk Phrase : None

Safety Advise Phrase : None

EEC Directive(76/548 EEC, 79/831 EEC, 92/32 EEC) :

The Subject of Specific Provisions in Relation to Protection of Man c None

Directive 76/769/EEC :

National requirement : None

SECTION 16 OTHER INFORMATION

National Fire Protection Association (NFPA) Classification :

Flammability : 0 Reactivity : 0

Health : 1 ( 0 = insignificant, 1 = slight )

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## Hazardous Materials Information Systems (HMIS) :

Red (Flammability) : No data  
Yellow (Reactivity) : No data  
Blue (Acute Effects) : No data

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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) 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).

Prepared by : TOSHIBA TEC CORPORATION  
Planning Dept. Quality Assurance Div.  
Document Processing & Telecommunication Systems Company  
6-78, Minami-cho, Mishima-shi, Shizuoka-ken, 411-8520 Japan