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MATERIAL SAFETY DATA SHEET

MSDS #: TN1065-0404 Product Code: 6601A / F42-5001

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon CLC5000 Black Toner

Product Code: 6601A / F42-5001
Company Name: Canon Europa N.V.

Address: Bovenkerkerweg 59-61, 1185XB, Amstelveen, The Netherlands

Use of the Product: Toner for electrophotographic apparatus

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

< Ingredient(s) > Chemical Name / Generic Name	CAS#/ EC#	Weight	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Polyester resin	Confidential	85-95	None/ None	Not established	Not established	Not established	Not established
Hydrogen bis[3,5-di-tert-butylsalicyl ato(2-)-O1,O2]chromate(1 -)	72869-85-3/ 276-955-4	1-6 (as Cr: 0.1-0.6)	Xn/ R22	Not established	Not established	Not established	Not established
Pigment	Confidential	1-5	None/ None	Not established	Not established	Not established	Not established
Carbon black	1333-86-4/ 215-609-9	<1	None/ None	3.5 mg/m³ (TWA)	3.5 mg/m³ (TWA)	Not established	Not established

< Carcinogen >

Chemical Name

CAS # Reference

Carbon Black (<1%)

1333-86-4

IARC: Group 2B. NTP; OSHA; Annex I to 67/548/EEC: Not listed.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Black fine powder, slight plastic odor.

Potential Health Effects and Symptoms:

Inhalation:

Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

Ingestion:

Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

Eye:

May cause transient slight irritation.

Skin:

May cause slight irritation.

Chronic Effects:

Prolonged inhalation of excessive amounts of dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

Medical Conditions Generally known to be Aggravated by Exposure:

Not determined



Canon

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SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:

Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately.

Eye:

Do not allow victim to rub eye(s). Flush with lukewarm, gently flowing water for 5 minutes or until particle is removed. If irritation persists, obtain medical attention.

Skin:

Wash with soap and water. If irritation persists, obtain medical advice.

Note to Physicians:

None

SECTION 5 FIRE FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media:

CO2, water, dry chemicals

Unsuitable Extinguishing Media:

None

Special Fire Fighting Procedures:

None

Unusual Fire and Explosion Hazards:

Can form explosive dust-air mixtures when finely dispersed in air.

Fire and Explosive Properties (See also Section 9):

Hazardous Combustion Products:

CO2, CO

Other Properties:

Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid breathing dust.

Environmental Precautions:

Do not wash away into sewer.

Method for Cleaning Up:

Sweep slowly spilled powder on to paper, and carefully transfer into a waste container. Clean remainder with wet paper, wet cloth or a vacuum cleaner.

If a vacuum cleaner is used, it must rate as a dust explosion-proof type. Fine powder can form explosive dust-air mixtures.

SECTION 7 HANDLING AND STORAGE

Handling:

Avoid breathing dust.

Use with adequate ventilation.

Storage:

Keep out of the reach of children.

Keep away from oxidizing materials.

Specific Uses:

Toner for electrophotographic apparatus.

For more information, please refer to the instruction of this product.

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SECTION 8 EXPOSI Exposure Guidelines:	URE CONTR	OLS / PERSONAL PROTECTION			
•	10 mg/m³ (In 4 mg/m³ (In	otal dust) 5 mg/m³ (Respirable fraction) halable fraction) 3 mg/m³ (Respirable fraction) halable fraction) 1.5 mg/m³ (Respirable fraction)			
Engineering Controls: Use adequate ventilation.					
Personal Protection Equipm	nent(s):				
Respiratory Protection:	Required Not Required	ired			
Eye/Face Protection:	☐ Required Not Required				
Skin Protection:	☐ Required Not Required				
SECTION 9 PHYSIC	CAL AND CH	EMICAL PROPERTIES			
Appearance:		Black fine powder			
Odor:		Slight plastic odor			
pH:		Not applicable			
Boiling Point/Range(°C):		Not applicable			
Melting Point/Range(°C):		85 - 120 (Softening point)			
Decomposition Temperature(°C):		> 200			
Flash Point(°C):		Not applicable			
Flammable (Explosive) Limits:		Not applicable			
Autoignition Temperature(°C):		Not available			
Flammability:		Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))			
Explosive Properties:		Can form explosive dust-air mixtures when finely dispersed in air.			
Oxidizing Properties:		Not available			
Vapor Pressure:		Not applicable			
Vapor Density:		Not applicable			
Density / Specific Gravity:		1.0 - 1.5			
Water Solubility:		Negligible			
Fat Solubility:		Partially soluble in toluene and xylene.			
Partition Coefficient (n-Oct	anol/Water):	Not applicable			
Percent Volatile:		Negligible			
Evaporation Rate:		Not applicable			
Viscosity (mPa s):		Not applicable			

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SECTION 10 STABILITY AND REACTIVITY					
Stability:	Stable Unstable □				
Conditions to Avoid:	None				
Materials to Avoid:	Strong oxidizers				
Hazardous Decomposition Products:	CO, CO2				
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur				
Conditions to Avoid:	None				
SECTION 11 TOXICOLOGIC	AL INFORMATION				
Acute Toxicity: Inhalation: Not available					
Ingestion: Estimate: Rat, LD50 > 2000 mg/	/kg (See Section 16)				
Eye: Estimate: Rabbit, transient slight	conjunctival irritation only. (See Section 16)				
Skin: Estimate: Rabbit, mild irritant (S	see Section 16)				
Sensitization: Estimate: Guinea pig, skin: Non-	-sensitizing (See Section 16)				
Mutagenicity: Ames Test (S. typhimurium, E. c	coli): Negative				
Reproductive Toxicity: Not available					
Carcinogenicity:					

The IARC evaluated carbon black as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black at levels that induce particle overload of the lung. However, there is a two-year inhalation study of a toner containing carbon black which demonstrated no association between toner exposure and tumor development in rats.

Others:

Chronic effects:

Muhle et al. reported pulmonary response upon chronic inhalation exposure in rats to a toner enriched in respirable-sized particles compared to commercial toner. No pulmonary change was found at 1 mg/m³ which is most relevant to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at 4 mg/m³, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m³. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.

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SECTION 12 E	COLOG	SICAL INFORMATION					
Mobility:		Not available					
Persistence / Degrad	lability:	Not available					
Bioaccumulation:		Not available					
Ecotoxicity:		Not available					
Other Adverse Effec	ets:	Not available					
SECTION 13 D	DISPOSA	L CONSIDERATIONS					
in air. Disposal sh	er or toner dust-explo ould be su	container into fire; heated toner may cause severe burns. DO NOT shred a toner sion preventing measures are taken. Finely dispersed particles form explosive mixtures abject to federal, state and local laws.					
SECTION 14	TRANSP(ORT INFORMATION					
UN #:	None						
UN Shipping Name:	None						
UN Classification:	None						
UN Packing Group:	None						
Marine Pollutant:	☐ Yes ➤ No	Chemical name (wt%):					
Special Precautions:	None						
SECTION 15	REGULA	TORY INFORMATION					
< EU Information >							
Information on the Symbol & Indicate		ot required					
R-Phrase: Not required							
S-Phrase: Not required							
Dangerous Com None	ponent(s):					
•		r 1999/45/EC Annex V: ble for professional user on request.					
Specific Provisions 76/769/EEC:	in Relati	on to Protection of Man or the Environment: lated					
(EC)2037/2000:	Not regu	lated					
(EC)304/2003:	Not regu	lated					
Others:	None						
< USA Information	>						
Information on the	Label:						
Signal Word:	Not requ	nired					
Hazard warning Not required	g:						



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Safety Advice:

Not required

Hazardous Component(s):

None

SARA Title III §313:

Chemical NameWeight %"Chromium(III) Compounds"1-6(as Cr)(0.1-0.6)

California Proposition 65:

Chemical Name Weight %

None

< Canada Information >

WHMIS Controlled Product: Not a controlled product

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials of this product. Revised information from the previous version: Section 2,11and 15

R-phrase list:

R22 - Harmful if swallowed.

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

Abbreviations:

EU: European Union.

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA).

ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.

EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.

DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average.

STEL: Short Term Exposure Limit.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program (USA).

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).

FHSA: Federal Hazardous Substances Act (USA).

WHMIS: Workplace Hazardous Materials Information System. NOHSC: National Occupational Health and Safety Commission.

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