

Canon

MATERIAL SAFETY DATA SHEET

MSDS #:

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Copper and its compounds

Not established

Product Code: 1428A / F42-0515

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING **Product Name:** Canon Toner (Cyan) for CLC1000 **Product Code:** 1428A / F42-0515 Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Phone # 03-3758-2111 Manufacturer: Supplier: Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA Phone #: 1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300 **SECTION 2** COMPOSITION/INFORMATION ON INGREDIENTS < Ingredient(s) > CAS#/ Weight EU Symbol/ Chemical Name / USA ACGIH TLV EU ILV DFG MAK EC# % R-Phrase OSHA PEL Generic name Polyester resin Confidential 85-95 None/ None Not established Not established Not established Not established Not specified 1-5 Not established Copper compound None/ None Not established Not established 1.0mg/m3 in DFG MAK (as Cu: (Inhalable list 0.1-1)fraction)

< Carcinogen >

Chromate(1-) bis[3.5-

(hydroxy-.kappa.O)

bis(1,1-dimethylethyl)-2-

benzoato(2-)-.kappa.O]-, hydrogen, (T-4)-

CAS# Reference

Not established

Not established

Not established

No component of this toner is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

72869-85-3/

276-955-4

1-4

(as Cr:

0.1 - 0.4)

Xn/ R22

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Cyan 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:

Practically non-toxic. Ingestion is a minor route of entry for intended use of this product.

Eye:

May cause transient slight irritation.

Skin:

May be non-irritant.

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

Date of Issue: June 3, 1996

Revised:

June 14, 2002

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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:	RE CONTROLS / PERSONAL PROTECTION		
•	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) 10 mg/m³ (Inhalable fraction) 3 mg/m³ (Respirable fraction) 4 mg/m³ (Inhalable fraction) 1.5 mg/m³ (Respirable fraction)		
Engineering Controls: Use adequate ventilation.			
Personal Protection Equip	ent(s):		
Respiratory Protection	☐ Required Mot Required		
Eye/Face Protection:	☐ Required ☑ Not Required		
Skin Protection:	rotection: ☐ Required ☐ Not Required		
SECTION 9 PHYSIC	AL AND CHEMICAL PROPERTIES		
Appearance:	Cyan fine powder		
Odor:	Slight plastic odor		
pH:	Not applicable		
Boiling Point/Range(°C):	Not applicable		
Melting Point/Range(°C):	100 - 150 (Softening point)		
Decomposition Temperatu	(°C): >200		
Flash Point(°C):	Not applicable		
Flammable (Explosive) Lin	ts: 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.		
	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 > 5000mg/	/kg			
Eye: Estimate:Rabbit, transient sligh	nt conjunctival irritation only.			
Skin: Estimate:Rabbit, non-irritant				
Sensitization: Guinea pig, skin : Non-sensitiz	ing			
Mutagenicity: Ames Test (Salmonella typhimurium): Negative				
Reproductive Toxicity: Not available				
Carcinogenicity: Not available				
Others:				
respirable-sized particles comp is most relevant to potential hu animals at 4 mg/m ³ , and a mild	ry response upon chronic inhalation exposure in rats to a toner enriched in pared to commercial toner. No pulmonary change was found at 1 mg/m³ which man exposure. A minimal to mild degree of fibrosis was noted in 22% of the 1 to moderate degree of fibrosis was observed in 92% of the animals at 16 buted to "lung overloading", a generic response to excessive amounts of any prolonged interval.			

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SECTION 12 EC	COLOG	GICAL INFORMATION
Mobility:		Not available
Persistence / Degrada	ability:	Not available
Bioaccumulation:		Not available
Ecotoxicity:		Not available
Other Adverse Effec	ts:	Not available
SECTION 13 D	ISPOSA	AL CONSIDERATION
container, unless d	lust-expl	er container into fire; heated toner may cause severe burns. DO NOT shred a toner losion preventing measures are taken. Finely dispersed particles form explosive hould be subject to federal, state or local laws.
SECTION 14 T	RANSP	ORT INFORMATION
UN #:	None	
UN Shipping Name:	None	
UN Classification:	None	
UN Packing Group:	None	
Marine Pollutant:		Chemical name (wt%):
Special Precautions:		
SECTION 15 R	EGUL	ATORY INFORMATION
< EU Information >		
Information on the l	Label:	
Symbol & Indica	ation: N	lot required
R-Phrase: Not required		
S-Phrase: Not required		
Dangerous Com None	ponent(s):
		ler 1999/45/EC Annex V: lable for professional user on request.
Specific Provisions i 76/769/EEC:	n Relati	ion to Protection of Man or the Environment:
(EC)2037/2000:	Not reg	gulated
(EEC)2455/92:		
Others:	None	
< USA Information	>	
Information on the		
Signal Word:	Not rec	quired
Hazard warning Not required	and the second second second	

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Safety Advice:

Not required

Hazardous Component(s):

None

SARA Title III §313:

Chemical Name	Weight %
Copper compounds	1-5
(as Cu)	(0.1-1)
Chromium(III) compounds	1-4
(as Cr)	(0.1-0.4)

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

R-phrase list:

R22 - Harmful if swallowed.

Revised information from the previous version:

Entirely revised

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, (EEC)2455/92
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

Abbreviations: "EU" stands for European Union.

- "OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration(USA).
- "ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
- "EU ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.
- "DFG MAK" stands for MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.
- "TWA" stands for Time Weighted Average
- "IARC" stands for International Agency for Research on Cancer.
- "NTP" stands for National Toxicology Program (USA).
- "OSHA HCS" stands for Occupational Safety and Health Act, Hazard Communication Standard(USA).
- "FHSA" stands for Federal Hazardous Substances Act(USA).
- 'WHMIS" stands for Workplace Hazardous Materials Information System.
- "NOHSC" stands for National Occupational Health and Safety Commission Act 1985.

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Date of Issue:

June 3, 1996

Revised:

June 14, 2002