Page 1 of 7



MATERIAL SAFETY DATA SHEET

MSDS #: TN1049-0305 Product Code: 1429A / F42-3111

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Toner (Cyan) for CLC1100 series

Product Code: 1429A / F42-3111

Manufacturer: Canon Inc.

30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Supplier: Canon Singapore Pte Ltd

1 HarbourFront Avenue, #04-01, Keppel Bay Tower, Singapore 098632

cspl_msds@canon.com.sg

Use of the Product: Toner for electrophotographic apparatus

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<	Ingredient	S) >	
_	mer cuiciii		, –	

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 -)		1-6 (as Cr: 0.1-0.6)	Xn/ R22	Not established	Not established	Not established	Not established
Pigment	Confidential	1-3	None/ None	Not established	Not established	Not established	Not established

< Carcinogen >

Chemical Name CAS# Reference

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.

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:

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



MATERIAL SAFETY DATA SHEET

MSDS #: TN1049-0305 Product Code: 1429A / F42-3111

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.

Page 3 of 7



MATERIAL SAFETY DATA SHEET

MSDS #: TN1049-0305

ET Product Code: 1429A / F42-3111

EXPOSURE CONTROLS / PERSONAL PROTECTION **SECTION 8 Exposure Guidelines:** USA OSHA PEL (TWA): 15 mg/m³ (Total dust), 5 mg/m³ (Respirable fraction) ACGIH TLV (TWA): 10 mg/m³ (Inhalable fraction), 3 mg/m³ (Respirable fraction) DFG (MAK): 4 mg/m³ (Inhalable fraction), 1.5 mg/m³ (Respirable fraction) (Also refer to SECTION 2) **Engineering Controls:** Use adequate ventilation. **Personal Protection Equipment(s): Respiratory Protection:** Required ■ Not Required **Eye/Face Protection:** ☐ Required ■ Not Required **Skin Protection:** ☐ Required **☒** Not Required **SECTION 9** PHYSICAL AND CHEMICAL PROPERTIES Appearance: Cyan 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 - 1.5Water Solubility: Negligible **Fat Solubility:** Partially soluble in toluene and xylene. Partition Coefficient (n-Octanol/Water): Not applicable **Percent Volatile:** Negligible **Evaporation Rate:** Not applicable Viscosity (mPa s): Not applicable

Page 4 of 7



MATERIAL SAFETY DATA SHEET

MSDS #: TN1049-0305 Product Code: 1429A / F42-3111

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 TOXICOLOGICA	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	ee Section 16)
Sensitization: Guinea pig, skin: Non-sensitizing	
Mutagenicity: Ames Test (S. typhimurium, E. c	oli): Negative
Reproductive Toxicity: Not available	
Carcinogenicity: Not available	
Othors	

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.

Date of Issue: Revised: February 26, 1999 March 31, 2006

Page 5 of 7



MATERIAL SAFETY DATA SHEET

MSDS #: TN1049-0305 Product Code: 1429A / F42-3111

SECTION 12 E	COLOG	SICAL INFORMATION					
Mobility:		Not available					
Persistence / Degradability: Bioaccumulation:		Not available Not available					
							Ecotoxicity:
Other Adverse Effects:		Not available					
SECTION 13 D	DISPOSA	L CONSIDERATIONS					
container, unless of	r or toner lust-explo	container into fire; heated toner may cause severe burns. DO NOT shred a toner osion preventing measures are taken. Finely dispersed particles form explosive mixtures abject to federal, state and local laws.					
SECTION 14 T	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 & Indica		ot required					
R-Phrase: Not required							
S-Phrase: Not required							
Dangerous Com Not required	ponent(s):					
-		r 1999/45/EC Annex V: ble for professional user on request.					
Specific Provisions 76/769/EEC:	in Relati	ion to Protection of Man or the Environment:					
(EC)2037/2000:	(EC)2037/2000: Not regulated						
· · ·	Not regu						
Others:	None						

Page 6 of 7



MATERIAL SAFETY DATA SHEET

MSDS #: TN1049-0305 Product Code: 1429A / F42-3111

< USA Information >

Information on the Label under OSHA:

Signal Word: Not required

Hazard warning:

Not required

Safety Advice:

Not required

Hazardous Component(s):

Not required

SARA Title III §313:

Chemical Name Weight %

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

California Proposition 65:

Chemical Name Weight %

None

< Canada Information >

WHMIS Controlled Product: Not applicable

< 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.

R phrase list: R22 - Harmful if swallowed.

Revised information from the previous version: Section 12 and 15

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40 CFR 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]

Page 7 of 7



MATERIAL SAFETY DATA SHEET

MSDS #: TN1049-0305 Product Code: 1429A / F42-3111

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).

WAF: Water Accommodated Fraction

LL: Lethal Loading rate EL: Effective Loading rate

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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