

### 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, Japan, Ph # 03-3758-2111  
**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)** >

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
Chromate(1-), bis[3,5-bis(1,1-dimethylethyl)-2-(hydroxy-.kappa.O)benzoato(2-)-.kappa.O]-, hydrogen, (T-4)-	72869-85-3/ 276-955-4	1 - 6 (as Cr: 0.1-0.6)	Xn / R22	Not established	Not established	Not established	Not established
Copper compound	Not specified in DFG MAK list	1 - 3 (as Cu: 0.1-0.8)	None / None	Not established	Not established	Not established	1.0mg/m <sup>3</sup> (Inhalable fraction) Copper and its compounds

< **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

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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.

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**Ingestion:**

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

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**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.

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**Skin:**

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

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**Note to Physicians:**

None

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**SECTION 5 FIRE FIGHTING MEASURES****Fire Fighting Measures:****Extinguishing Media:**

CO<sub>2</sub>, water, dry chemicals

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**Unsuitable Extinguishing Media:**

None

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**Special Fire Fighting Procedures:**

None

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**Unusual Fire and Explosion Hazards:**

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

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**Fire and Explosive Properties (See also Section 9):****Hazardous Combustion Products:**

CO<sub>2</sub>, CO

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**Other Properties:**

Not available

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**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal Precautions:**

Avoid breathing dust.

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**Environmental Precautions:**

Do not wash away into sewer.

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**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.

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**SECTION 7 HANDLING AND STORAGE****Handling:**

Avoid breathing dust.

Use with adequate ventilation.

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**Storage:**

Keep out of the reach of children.

Keep away from oxidizing materials.

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**Specific Uses:**

Toner for electrophotographic apparatus. For more information, please refer to the instruction of this product.

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## MATERIAL SAFETY DATA SHEET

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:**

USA OSHA PEL (TWA): 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction)  
 ACGIH TLV (TWA): 10 mg/m<sup>3</sup> (Inhalable fraction) 3 mg/m<sup>3</sup> (Respirable fraction)  
 DFG (MAK): 4 mg/m<sup>3</sup> (Inhalable fraction) 1.5 mg/m<sup>3</sup> (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

<b>Appearance:</b>	Cyan fine powder
<b>Odor:</b>	Slight plastic odor
<b>pH:</b>	Not applicable
<b>Boiling Point/Range(°C):</b>	Not applicable
<b>Melting Point/Range(°C):</b>	85 - 120(Softening point)
<b>Decomposition Temperature(°C):</b>	> 200
<b>Flash Point(°C):</b>	Not applicable
<b>Flammable (Explosive) Limits:</b>	Not applicable
<b>Autoignition Temperature(°C):</b>	Not available
<b>Flammability:</b>	Not-flammable (Test method : Directive 92/69/EEC, A10 Flammability (Solids))
<b>Explosive Properties:</b>	Can form explosive dust-air mixtures when finely dispersed in air.
<b>Oxidizing Properties:</b>	Not available
<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density:</b>	Not applicable
<b>Density / Specific Gravity:</b>	1.0 - 1.5
<b>Water Solubility:</b>	Negligible
<b>Fat Solubility:</b>	Partially soluble in toluene and xylene.
<b>Partition Coefficient (n-Octanol/Water):</b>	Not applicable
<b>Percent Volatile:</b>	Negligible
<b>Evaporation Rate:</b>	Not applicable
<b>Viscosity (mPa s):</b>	Not applicable

**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 TOXICOLOGICAL INFORMATION**

**Acute Toxicity:**

**Inhalation:**  
 Not available

**Ingestion:**  
 Estimate:Rat, LD50 > 2000mg/kg

**Eye:**  
 Estimate:Rabbit, transient slight conjunctival irritation only.

**Skin:**  
 Estimate:Rabbit, mild-irritant

**Sensitization:**  
 Guinea pig, skin : Non-sensitizing

**Mutagenicity:**  
 Ames Test (Salmonella typhimurium) : Negative

**Reproductive Toxicity:**  
 Not available

**Carcinogenicity:**  
 Not available

**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/m<sup>3</sup> 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/m<sup>3</sup>, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m<sup>3</sup>. 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 ECOLOGICAL INFORMATION**

**Mobility:** Not available  
**Persistence / Degradability:** Not available  
**Bioaccumulation:** Not available  
**Ecotoxicity:** Not available  
**Other Adverse Effects:** Not available

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**SECTION 13 DISPOSAL CONSIDERATION****Method of Disposal:**

DO NOT put toner or toner container into fire; heated toner may cause severe burns. DO NOT shred a toner container, unless dust-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures in air. Disposal should be subject to federal, state or local laws.

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**SECTION 14 TRANSPORT INFORMATION**

**UN #:** None  
**UN Shipping Name:** None  
**UN Classification:** None  
**UN Packing Group:** None  
**Marine Pollutant:**  Yes  No Chemical name (wt%):  
**Special Precautions:** None

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**SECTION 15 REGULATORY INFORMATION**

## &lt; EU Information &gt;

**Information on the Label:**

**Symbol & Indication:** Not required

**R-Phrase:**  
Not required

**S-Phrase:**  
Not required

**Dangerous Component(s):**  
None

**Special Precautions under 1999/45/EC Annex V:**  
Safety data sheet available for professional user on request.

**Specific Provisions in Relation to Protection of Man or the Environment:**

**76/769/EEC:** Not regulated

**(EC)2037/2000:** Not regulated

**(EEC)2455/92:** Not regulated

**Others:** None

## &lt; USA Information &gt;

**Information on the Label:**

**Signal Word:** Not required

**Hazard warning:**  
Not required

**Safety Advice:**  
 Not required

**Hazardous Component(s):**  
 None

**SARA Title III §313:**

Chemical Name	Weight %
Chromium(III) compounds (as Cr)	1-6 (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**

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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