# Canon Starter (Cyan) for CLC700

## Product Name:
Canon Starter (Cyan) for CLC700

## Product Code:
1459A001AA / F42-0412

## Manufacturer:
Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph# 03-3758-2111

## Supplier:
Canon USA, Inc., One Canon Park, Melville, NY 11747, USA

## Phone #:
1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300

## MSDS #:
TN0070-0605

## SECTION 2  COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous Ingredient(s)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Weight %</th>
<th>EU Symbol</th>
<th>EU R-Phrase</th>
<th>USA OSHA PEL</th>
<th>ACGIH TLV</th>
<th>EU ILV</th>
<th>DFG MAK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferrite including copper and zinc</td>
<td>66402-68-4</td>
<td>90-95 (AsCu:10-12)</td>
<td>None</td>
<td>None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>1.0mg/m3 Copper and its compounds (Inhalable fraction)</td>
</tr>
<tr>
<td>Copper compound</td>
<td>-</td>
<td>&lt;0.5</td>
<td>None</td>
<td>None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>1.0mg/m3 Copper and its compounds (Inhalable fraction)</td>
</tr>
</tbody>
</table>

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SECTION 2  COMPOSITION/INFORMATION ON INGREDIENTS - Continued

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

Other Ingredient(s)

<table>
<thead>
<tr>
<th>Chemical/Generic Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester resin</td>
<td>3 - 10</td>
</tr>
</tbody>
</table>

SECTION 3  HAZARDS IDENTIFICATION

Emergency Overview: Cyanish gray 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.

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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:
Flash Point(°C): Not applicable
Flammable(Explosive) Limits: Not applicable
Autoignition Temperature(°C): Not available

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SECTION 5  FIRE FIGHTING MEASURES - Continued

Fire and Explosive Properties - Continued:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoflammability</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive Properties:</td>
<td>Can form explosive dust-air mixtures when finely dispersed in air.</td>
</tr>
<tr>
<td>Oxidizing Properties:</td>
<td>Not available</td>
</tr>
<tr>
<td>Hazardous Combustion Products:</td>
<td>CO₂, CO</td>
</tr>
<tr>
<td>Other Properties:</td>
<td>Not available</td>
</tr>
</tbody>
</table>

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 away from oxidizing materials.
SECTION 8  EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: USA OSHA(TWA/PEL): 15mg/m³ (Total dust)
5mg/m³ (Respirable fraction)
ACGIH(TWA/TLV): 10mg/m³ (Inhalable particulate)
3mg/m³ (Respirable particulate)
DFG (MAK): 4mg/m³ (Inhalable fraction)
1.5mg/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: Cyanish gray fine powder

Odor: Slight plastic odor
pH: Not applicable
Boiling Point/Range(°C): Not applicable
Melting Point/Range(°C): 100 - 150 (Softening point)
Decomposition Temperature(°C): >200
Flash Point(°C): Not applicable
Flammable (Explosive) Limits: Not applicable
Autoignition Temperature(°C): Not available
Autoflammability: Not applicable
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: 4.0 - 5.0
Water Solubility: Negligible
Fat Solubility: Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Water): Not applicable
Percent Volatile: Negligible
Evaporation Rate: 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 > 5000 mg/kg |
| Eye: | Estimate: Rabbit, transient slight conjunctival irritation only. |
| Skin: | Estimate: Rabbit, non irritant. |
| Sensitization: | Not available. |
| Mutagenicity: | Estimate: Ames Test (Salmonella typhimurium) : Negative |
| Reproductive Toxicity: | Not available. |

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SECTION 11  TOXICOLOGICAL INFORMATION - Continued

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/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.

SECTION 12  ECOLOGICAL INFORMATION

Mobility:  Not available.

Persistence / Degradability:  Not available.

Bioaccumulation:  Not available.

Ecotoxicity:  Not available.

Other Adverse Effects:  Not available.

SECTION 13  DISPOSAL CONSIDERATION

Method of Disposal:  Disposal should be subject to federal, state or local laws.

SECTION 14  TRANSPORT INFORMATION

UN #:  None
UN Shipping Name:  None
UN Classification:  None
UN Packing Group:  None
Special Precautions:  None

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SECTION 15  REGULATORY INFORMATION

EU Information:
Information on the Label:
Symbol & Indication: Not required
R-Phrase: Not required

S-Phrase: Not required

Dangerous Component(s): None

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

USA Information:
Information on the Label
Signal Word: Not required
Hazard warning: Not required

Safety Advice: Not required

Hazardous Component(s): None

SARA Title III §313:
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferrite including copper and zinc</td>
<td>95 wt% (Maximum)</td>
</tr>
<tr>
<td>Copper and compounds(As Copper metal)</td>
<td>(12 wt%(Maximum))</td>
</tr>
<tr>
<td>Zinc and compounds(As Zinc metal)</td>
<td>(14 wt% (Maximum))</td>
</tr>
</tbody>
</table>

California Proposition 65:
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

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Other Information:

None

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
- DFG, List of MAK and BAT Values

Abbreviations:
"EU" stands for European Union.
"OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration.
"ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
"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.
"FHSA" stands for Federal Hazardous Substances Act.

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