### SECTION 1  IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name:** Canon CLC5000 Magenta Starter  
**Product Code:** 6608A / F42-5023  
**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 24Hr. Emergency CHEMTREC#1-800-424-9300

### SECTION 2  COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name / Generic Name</th>
<th>CAS # / EC #</th>
<th>Weight %</th>
<th>EU Symbol/ 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 manganese</td>
<td>Not registered</td>
<td>90-95 (as Mn: 16-18)</td>
<td>None/ None</td>
<td>5 mg/m³ (Ceiling) Manganese compounds (as Mn)</td>
<td>0.2 mg/m³ (TWA) Manganese elemental, and inorganic compounds, as Mn</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Polyester resin</td>
<td>Confidential</td>
<td>5-10</td>
<td>None/ None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### SECTION 3  HAZARDS IDENTIFICATION

#### EU Classification:
Not classified as dangerous.

#### Emergency Overview:
Magentanish gray fine powder, slight plastic odor.  
Inhalation of excessive amounts of manganese powder may cause cough, shortness of breath or pneumonitis.

#### Potential Health Effects and Symptoms:
**Inhalation:**  
Inhalation of excessive amounts of manganese powder may cause cough, shortness of breath or pneumonitis.

**Ingestion:**  
Low acute toxicity. Ingestion is a minor route of entry for intended use of this product. Ingestion of manganese may cause headache, abdominal pain or nausea.

**Eye:**  
May cause transient slight irritation.

**Skin:**  
May be non irritant.

#### Chronic Effects:
Prolonged inhalation of excessive amounts of manganese powder may cause lung damage and nervous system effects. Normal use and handling of this product does not result in inhalation of excessive amounts of manganese powder.

#### Medical Conditions Generally known to be Aggravated by Exposure:
Not determined
SECTION 4  FIRST AID MEASURES

First Aid Measures:

Inhalation:
Remove victim to fresh air. Get medical attention if symptoms persist.

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:
Do not breathe dust.
Wash thoroughly after handling.

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:
Do not breathe dust. Wash thoroughly after handling.
Use with adequate ventilation. Minimize dust generation.

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.
SECTION 8  EXPOSURE CONTROLS / PERSONAL PROTECTION

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: Magentaish gray 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
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: 4.0-6.0
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
Viscosity (mPa s): 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

SECTION 11  TOXICOLOGICAL 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, non-irritant (See Section 16)

Sensitization:
Not available

Mutagenicity:
Estimate: Ames Test (S. typhimurium): Negative (See Section 16)

Reproductive Toxicity:
Manganese and its inorganic compounds:
There is a study showing that prolonged inhalation of excessive amounts of manganese powder may cause adverse effects on the fertility of male workers. However, normal use and handling of this product, as intended, does not result in inhalation of excessive amounts of manganese powder.

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 1mg/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 CONSIDERATIONS

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

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

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): Not required
Special Precautions under 1999/45/EC Annex V: Not required
Specific Provisions in Relation to Protection of Man or the Environment:
76/769/EEC: Not regulated
(EC)2037/2000: Not regulated
(EC)304/2003: Not regulated
Others: None

Date of Issue: May 14, 2004
Revised: August 25, 2005
Information on the Label under OSHA:

Signal Word: **CAUTION!**

Hazard warning:
PROLONGED INHALATION OF EXCESSIVE AMOUNTS OF MANGANESE MAY CAUSE LUNG DAMAGE AND NERVOUS SYSTEM EFFECTS.

Safety Advice:
Do not breathe dust.
Do not taste or swallow.
For additional information, see MSDS for this product.

Hazardous Component(s):
Not required

SARA Title III §313:

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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>

WHMIS Controlled Product: Not a controlled product

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

SECTION 16 OTHER INFORMATION

Revised information from the previous version: Section 2 and 11

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials of this product.

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
- Canada Workplace Hazardous Materials Information System
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