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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product Identifier

**Product name** Canon Starter (Yellow) for CLC1100 series  
**Product Code(s)** 1473A001

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use** Toner for electrophotographic machines

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Importer  
Canon Europa N.V.  
Bovenkerkerweg 59, 1185XB Amstelveen, The Netherlands  
+31 20 5458545, +31 20 5458222  
www.canon-europe.com, ceu-Reach@canon-europe.com

#### Manufacturer

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

### 1.4. Emergency Telephone Number

<b>Austria</b>	+43 (0) 1 406 43 43	<b>Belgium</b>	+32 (0) 70 245 245
<b>Bulgaria</b>	112	<b>Croatia</b>	+385 (0)1-23-48-342
<b>Cyprus</b>	1401	<b>Czech Republic</b>	+420 224919293
<b>Denmark</b>	+45 82 12 12 12 [ <sup>*1</sup> ]	<b>Estonia</b>	16662
<b>Finland</b>	+358 (0)9 471977	<b>France</b>	+33 (0)1 45 42 59 59
<b>Greece</b>	+30 210 7793777	<b>Hungary</b>	+36 80 20 11 99
<b>Italy</b>	+39 (0)55 7947819	<b>Latvia</b>	+371 67042473
<b>Lithuania</b>	+370 687 53378	<b>Luxembourg</b>	112
<b>Malta</b>	112	<b>Netherlands</b>	+31 (0)30-2748888 [ <sup>*2</sup> ]
<b>Poland</b>	112	<b>Portugal</b>	+351 808 250 143
<b>Romania</b>	+40 21 318 36 06	<b>Slovakia</b>	+421 2 5477 4166
<b>Slovenia</b>	112	<b>Spain</b>	112
<b>Sweden</b>	112 [ <sup>*3</sup> ]	<b>United Kingdom</b>	111 (UK only)
<b>Iceland</b>	112	<b>Liechtenstein</b>	145
<b>Norway</b>	+47 22 59 13 00	<b>Switzerland</b>	145

\*1 Kontakt Giftlinien på tlf.nr.: 82 12 12 12 (åbent 24 timer i døgnet). Se punkt 4 om førstehjælp.

\*2 Only for the purpose of informing medical personnel in cases of acute intoxications.

\*3 Ask for Poison Information

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**  
Not classified

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**  
Not classified

## 2.2. Label Elements

### Labelling according to Regulation (EC) No 1272/2008

Not required

### Hazard pictograms

Not required

### Signal word

Not required

### Hazard statements

Not required

### Precautionary Statements - EU (§28, 1272/2008)

Not required

### Other Information

None

## 2.3. Other Hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS-No	EC-No	REACH registration number	Weight %	Classification (67/548)	Indication of danger	Classification (Reg. 1272/2008)
Ferrite including manganese	66402-68-4	266-340-9	None	85 - 95 (as Mn:10-20)	None	None	None
Polyester resin	CBI	CBI	None	5 - 10	None	None	None

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move to fresh air. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.
<b>Eye Contact</b>	Flush with plenty of water. Get medical attention immediately if symptoms occur.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	None under normal use. Inhalation of excessive amounts of manganese powder may cause cough, shortness of breath or pneumonitis.
<b>Ingestion</b>	None under normal use.
<b>Skin Contact</b>	None under normal use.
<b>Eye Contact</b>	None under normal use. May cause slight irritation.

**Chronic Effects** None under normal use. Prolonged inhalation of excessive amounts of manganese powder may cause lung damage and nervous system effects.

**4.3. Indication of any immediate medical attention and special treatment needed**

None

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Use CO<sub>2</sub>, dry chemical, or foam, Water.

**Unsuitable extinguishing media**

None

**5.2. Special hazards arising from the substance or mixture**

**Special Hazard**

May form explosive mixtures with air.

**Hazardous combustion products**

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO)

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

None

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust. Avoid contact with skin, eyes and clothing.

**6.2. Environmental Precautions**

Keep out of waterways.

**6.3. Methods and material for containment and cleaning up**

Clean up promptly by scoop or vacuum. If a vacuum cleaner is used, be sure to use a model with dust explosion safety measures. May form explosive mixtures with air.

**6.4. Reference to other sections**

None

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Avoid breathing dust. Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use only with adequate ventilation.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Incompatible with oxidizing agents.

**7.3. Specific end uses**

Toner for electrophotographic machines. Obtain special instructions before use.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure Limits**

Chemical name	EU OEL	Austria	Belgium	Bulgaria	Cyprus
Ferrite including manganese 66402-68-4	None	TWA: 0.5 mg/m <sup>3</sup> inhalable fraction STEL: 2 mg/m <sup>3</sup> inhalable fraction	None	TWA: 0.3 mg/m <sup>3</sup> STEL: 3.0 mg/m <sup>3</sup>	None
Chemical name	Czech Republic	Denmark	Finland	France	Germany
Ferrite including manganese 66402-68-4	TWA: 10 mg/m <sup>3</sup> total dust	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> inhalable dust TWA: 0.1 mg/m <sup>3</sup> respirable	None	TRGS TWA: 0.5 mg/m <sup>3</sup> inhalable fraction DFG TWA: 0.2 mg/m <sup>3</sup> inhalable fraction DFG TWA: 0.02 mg/m <sup>3</sup> respirable fraction Ceiling / Peak: 1.6 mg/m <sup>3</sup> inhalable fraction Ceiling / Peak: 0.16 mg/m <sup>3</sup> respirable fraction
Chemical name	Poland	Portugal	Romania	Slovakia	Spain
Ferrite including manganese 66402-68-4	TWA: 0.3 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	None	TWA: 2 mg/m <sup>3</sup> respirable fraction, 5% or less fibrogenic component TWA: 10 mg/m <sup>3</sup> respirable fraction, greater than 5% fibrogenic component TWA: 10 mg/m <sup>3</sup> total aerosol TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>
Chemical name	Sweden	United Kingdom	Norway	Switzerland	Turkey
Ferrite including manganese 66402-68-4	TLV: 0.2 mg/m <sup>3</sup> total dust TLV: 0.1 mg/m <sup>3</sup> respirable dust	TWA: 0.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> inhalable fraction TWA: 0.1 mg/m <sup>3</sup> respirable fraction STEL: 3 ppm inhalable fraction STEL: 0.3 mg/m <sup>3</sup> respirable fraction	TWA: 0.5 mg/m <sup>3</sup> inhalable	None

**8.2. Exposure controls**

**Appropriate engineering controls** None under normal use conditions.

**Individual protection measures, such as personal protective equipment**

- Eye/face Protection** Not required under normal use.
- Skin Protection** Not required under normal use.
- Respiratory Protection** Not required under normal use.
- Thermal hazards** Not Applicable

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Grayish Yellow ; powder
Odor	Slight odor
Odor threshold	No data available
pH	Not Applicable
Melting/Freezing point (°C)	85-120 (Softening point)
Boiling Point/Range (°C)	Not Applicable
Flash Point (°C)	Not Applicable
Evaporation Rate	Not Applicable
Flammability (solid, gas)	Not flammable; estimated
Flammability Limits in Air	
Upper Flammability Limit	Not Applicable
Lower Flammability Limit	Not Applicable
Vapor pressure	Not Applicable
Vapor Density	Not Applicable
Relative density	4.0-6.0
Solubility(ies)	Organic solvent; partly soluble
Partition coefficient: n-octanol/water	Not Applicable
Autoignition Temperature (°C)	No data available
Decomposition Temperature (°C)	> 200
Viscosity (mPa s)	Not Applicable
Explosive properties	May form explosive mixtures with air
Oxidizing properties	No data available

### 9.2. Other Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None

### 10.2. Chemical stability

Stable

### 10.3. Possibility of Hazardous Reactions

None

### 10.4. Conditions to Avoid

None

### 10.5. Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents.

### 10.6. Hazardous Decomposition Products

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO)

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Estimate: LD50 > 2000 mg/kg (Ingestion)
<b>Skin corrosion/irritation</b>	Estimate: Non-irritant
<b>Serious eye damage/eye irritation</b>	Estimate: Transient slight conjunctival irritation only.
<b>Sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	Estimate: Ames Test (S. typhimurium) : Negative
<b>Carcinogenicity</b>	No data available
<b>Reproductive Toxicity</b>	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.
<b>STOT - single exposure</b>	No data available
<b>STOT - repeated exposure</b>	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.
<b>Aspiration hazard</b>	No data available
<b>Other Information</b>	No data available

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity effects**  
No data available

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

DO NOT put toner or a toner container into fire. Heated toner may cause severe burns. DO NOT dispose of a toner container in a plastic crusher. Use a facility with dust explosion prevention measures. Finely dispersed particles form explosive mixtures with air. Dispose of in accordance with local regulations.

## SECTION 14: Transport information

- 14.1. UN number** None
- 14.2. UN Proper Shipping Name** None
- 14.3. Transport Hazard Class** None
- 14.4. Packing Group** None
- 14.5. Environmental Hazards** No special environmental precautions required.
- 14.6. Special Precautions for users** None
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

(EC) No 1907/2006 Authorisation	Not regulated
(EC) No 1907/2006 Restriction	Not regulated
(EC) No 1005/2009	Not regulated
(EC) No 850/2004	Not regulated
(EU) No 649/2012	Not regulated
Other Information	None

### 15.2. Chemical safety assessment

None

## SECTION 16: Other information

### Key literature references and sources for data

- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- EU Directive 1999/45/EC
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EU) No 649/2012

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**1473A001**  
**Canon Starter (Yellow) for CLC1100 series**

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**Key or legend to abbreviations and acronyms used in the safety data sheet**

- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- IARC: International Agency for Research on Cancer
- EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU.
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- CBI: Confidential Business Information

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