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

1.1. Product Identifier

Product name Canon Starter (Cyan) for CLC1100 series
Product Code(s) 1461A001

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

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

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

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

Inhalation	None under normal use. Inhalation of excessive amounts of manganese powder may cause cough, shortness of breath or pneumonitis.
Ingestion	None under normal use.
Skin Contact	None under normal use.
Eye Contact	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 CO₂, 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 (CO₂), 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 ³ inhalable fraction STEL: 2 mg/m ³ inhalable fraction	None	TWA: 0.3 mg/m ³ STEL: 3.0 mg/m ³	None
Chemical name	Czech Republic	Denmark	Finland	France	Germany
Ferrite including manganese 66402-68-4	TWA: 10 mg/m ³ total dust	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ inhalable dust TWA: 0.1 mg/m ³ respirable	None	TRGS TWA: 0.5 mg/m ³ inhalable fraction DFG TWA: 0.2 mg/m ³ inhalable fraction DFG TWA: 0.02 mg/m ³ respirable fraction Ceiling / Peak: 1.6 mg/m ³ inhalable fraction Ceiling / Peak: 0.16 mg/m ³ respirable fraction
Chemical name	Poland	Portugal	Romania	Slovakia	Spain
Ferrite including manganese 66402-68-4	TWA: 0.3 mg/m ³	TWA: 0.2 mg/m ³	None	TWA: 2 mg/m ³ respirable fraction, 5% or less fibrogenic component TWA: 10 mg/m ³ respirable fraction, greater than 5% fibrogenic component TWA: 10 mg/m ³ total aerosol TWA: 0.5 mg/m ³	TWA: 0.2 mg/m ³
Chemical name	Sweden	United Kingdom	Norway	Switzerland	Turkey
Ferrite including manganese 66402-68-4	TLV: 0.2 mg/m ³ total dust TLV: 0.1 mg/m ³ respirable dust	TWA: 0.5 mg/m ³	TWA: 1 mg/m ³ inhalable fraction TWA: 0.1 mg/m ³ respirable fraction STEL: 3 ppm inhalable fraction STEL: 0.3 mg/m ³ respirable fraction	TWA: 0.5 mg/m ³ 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 Cyan ; 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 (CO₂), Carbon monoxide (CO)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Estimate: LD50 > 2000 mg/kg (Ingestion)
Skin corrosion/irritation	Estimate: Non-irritant
Serious eye damage/eye irritation	Estimate: Transient slight conjunctival irritation only.
Sensitization	No data available
Germ cell mutagenicity	Estimate: Ames Test (S. typhimurium) : Negative
Carcinogenicity	No data available
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.
STOT - single exposure	No data available
STOT - repeated exposure	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 ³ 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 ³ , and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m ³ . These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.
Aspiration hazard	No data available
Other Information	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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1461A001
Canon Starter (Cyan) for CLC1100 series

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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This safety data sheet (SDS) is supplied voluntarily.

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