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| SECTION 1                          | IDENTIFICATION O<br>COMPANY/UNDER |  | CE/PREPARA              | ATION AND                                     | OF THE                    |
|------------------------------------|-----------------------------------|--|-------------------------|---|---------------------------|
| Product Name:                      | Canon Starter (Yellow) for CLC300 |  |                         |   |                           |
| Product Code:                      | 1469A001AA / F41-                 | 1469A001AA / F41-6832                                    |                         |   |                           |
| Manufacturer:                      | Canon Inc., 30-2, Sh              | imomaruko 3-Cho  | me, Ohta-ku, T          | Tokyo, Japan,                                 | Ph# 03-3758-2111          |
| Supplier:                          | Canon USA, Inc., On               | Canon USA, Inc., One Canon Park, Melville, NY 11747, USA |                         |   |                           |
| Phone #:                           | 1-800-OK-CANON                    | 24 Hr. Emer  | gency CHEM              | TREC # 1-80                                   | 0-424-9300                |
| MSDS #:                            | TN0065-0304                       |  |                         |   |                           |
| SECTION 2                          | COMPOSITION/INFO                  | ORMATION ON I  | NGREDIENTS              | S   |                           |
| Hazardous Ingredie                 | ent(s)                            |  |                         |   |                           |
| Chemical Name                      |                                   | CAS#   | Weight %                | EU Symbol                                     | EU R-Phrase               |
| Ferrite including of               | copper and zinc                   | 66402-68-4   | 90 - 96<br>(AsCu:10-12) | None  | None                      |
| Chemical Name Ferrite including of | conner and zinc                   | USA OSHA PEI   |                         | ACGIH TL Not establis                         |                           |
| Territe meruanig                   | copper and line                   |  |                         |   |                           |
| Chemical Name                      |                                   | EU ILV   |                         | DFG MAK                                       |                           |
| Ferrite including                  | copper and zinc                   | Not established  |                         | 1.0mg/m <sup>3</sup> (As Cu and Inhalable fra | its compound :<br>action) |
| -                                  |                                   | _  |                         |   |                           |



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| SECTION 2 CC   | MPOSITION/INFORM                                 | MATION ON       | INGREDIENTS - Continued   |
|--|--|-----------------|---|
| Carcinogen<br>Chemical Name  |  | CAS#            | Reference   |
| No component of this to<br>carcinogen or potential<br>Monographs, NTP, OS<br>to Directive 67/548/EE<br>Other Ingredient(s) | carcinogen in IARC<br>HA regulations or Annex I  |                 |   |
| Chemical/Generic 1   | Name   |                 | Weight %  |
| Polyester resin<br>Pigment   |  |                 | 3 - 7<br><1   |
|  |  |                 |   |
| SECTION 3 H  | AZARDS IDENTIFICA                                | ATION           |   |
| Emergency<br>Overview:   | Yellowish gray fine po                           | owder, slight   | plastic odor.   |
| Potential Health Eff<br>Inhalation:  | fects and Symptoms: Exposure to excessive tract. | amounts of      | dust may cause physical irritation to respiratory   |
| Ingestion:   | Practically non-toxic. product.                  | Ingestion is    | a minor route of entry for intended use of this   |
| Eye:   | May cause transient sl                           | ight irritation | 1.  |
| Skin:  | May be non irritant.                             |                 |   |
| Chronic Effects:   | _  |                 | amounts of dust may cause lung damage. Use of esult in inhalation to excessive amounts of dust. |
| Medical Condition  | ons Generally known to<br>Not determined.        | be Aggrava      | ted by Exposure:  |
|  |  |                 |   |

#### Canon

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FIRST AID MEASURES **SECTION 4** First Aid Measures: Inhalation: If symptoms are experienced, move victim to fresh air and obtain medical advice. Ingestion: Rince mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately. Do not allow victim to rub eye(s). Flush with lukewarm, gently flowing water for 5 Eye: 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 None Physicians: **SECTION 5** FIRE FIGHTING MEASURES Fire Fighting Measures: CO<sub>2</sub>, water, dry chemicals Extinguishing Media: Unsuitable None Extinguishing Media: None Special Fire Fighting Procedures: Can form explosive dust-air mixtures when finely dispersed in air. Unusual Fire and **Explosion Hazards:** Fire and Explosive Properties: Flash Point(°C): Not applicable Flammable(Explosive) Not applicable Limits: Autoignition Not available Temperature( $^{\circ}$ C): Flammability: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))



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| SECTION 5 FIRE FIGHTING MEASURES - Continued |  |  |  |  |
|--|--|--|--|--|
| Fire and Explosive Pro                       | operties - Continued:  |  |  |  |
| Autoflammability:                            | Not applicable   |  |  |  |
| Explosive Properties                         |  |  |  |  |
| Oxidizing Properties                         | Not available  |  |  |  |
| Hazardous                                    | CO <sub>2</sub> , CO   |  |  |  |
| Combustion Product                           |  |  |  |  |
| Other Properties:                            | Not available  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| SECTION 6 ACC                                | IDENTAL 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 HAN                                | DLING AND STORAGE  |  |  |  |
| II. a dila                                   | A south bounding that  |  |  |  |
| Handling:                                    | Avoid breathing dust. Use with adequate ventilation.   |  |  |  |
|  |  |  |  |  |
| Storage:                                     | Keep away from oxidizing materials.  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |



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| SECTION 8 EXPC                           | OSURE CO    | ONTROLS         | S / PERSONAL PROTECTION  |  |
|--|-------------|-----------------|--|--|
| Exposure Guidelines:                     | USA OSHA    | A(TWA/PEI       | L):15mg/m3 (Total dust)  |  |
|  | ACGIH(TV    | VA/TLV):        | 5mg/m3 (Respirable fraction)<br>10mg/m3 (Inhalable particulate)                        |  |
|  |             |                 | 3mg/m3 (Respirable particulate)  |  |
|  | DFG (MAK    | <b>(</b> ):     | 4 mg/m3 (Inhalable fraction) 1.5 mg/m3 (Respirable fraction) (Also refer to SECTION 2) |  |
| Engineering Controls:                    | Use adequ   | uate ventil     | ation.   |  |
|  |             |                 |  |  |
| Personal Protection Equ                  | uipment(s)  | ):              |  |  |
| Respiratory Protection:                  | Requir      | ed 🛮 No         | ot Required  |  |
| Eve/Ee ee                                |             | d <b>N</b> N    | A Daminad  |  |
| Eye/Face<br>Protection:                  | Requir      | ea <b>K</b> INO | ot Required  |  |
| CI. D                                    |             | 1 <b>5</b> 7 N  | - D  |  |
| Skin Protection:                         | Requir      | ea 🔀 No         | ot Required  |  |
|  |             |                 |  |  |
| SECTION 9 PHYS                           | SICAL AN    | D CHEM          | ICAL PROPERTIES  |  |
|  |             |                 |  |  |
| Appearance:                              |             | Yellowis        | h gray fine powder   |  |
| Odor:                                    |             |                 | astic odor   |  |
| pH:                                      |             | Not appli       |  |  |
| Boiling Point/Range(°C                   | <i>'</i>    | Not appli       |  |  |
| Melting Point/Range(°C                   | *           |                 | (Softening point)  |  |
| Decomposition Temper Flash Point(°C):    | rature(°C): |                 | S.11.  |  |
| Flammable (Explosive)                    | Limita      | Not appl        |  |  |
| ` • • /                                  |             | Not appli       |  |  |
| Autoignition Temperatu Flammability:     | are(°C):    | Not avail       | mable (Test method : Directive 92/69/EEC, A10 Flammability                             |  |
| rammaomity.                              |             | (Solids))       | mable (Test method). Directive 72/07/EEC, A10 Flammability                             |  |
| Autoflammability:                        |             | Not appli       | cable  |  |
| Explosive Properties:                    |             | Can form        | explosive dust-air mixtures when finely dispersed in air.                              |  |
| Oxidizing Properties:                    |             | Not avail       | able   |  |
| Vapor Pressure:                          |             | Not applicable  |  |  |
| Vapor Density:                           |             | Not appli       | cable  |  |
| Density / Specific Gravi                 | ity:        | 4.0 - 5.0       |  |  |
| Water Solubility:                        |             | Negligibl       | e  |  |
| Fat Solubility:                          |             | Partially       | soluble in toluene and xylene.   |  |
| Partition Coefficient (n-Octanol/Water): |             | Not appli       | cable  |  |
| Percent Volatile:                        |             | Negligibl       | e  |  |
| Evaporation Rate:                        |             | Not appli       | cable  |  |
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| SECTION 10 STABILITY AND REACTIVITY |          |   |  |  |
|-------------------------------------|----------|---|--|--|
| Stability:                          |          | Stable    □ Unstable  |  |  |
| Conditions to Avoid:                |          | None  |  |  |
| Materials to Avoid:                 |          | Strong oxidizers  |  |  |
| Hazardous Decompo<br>Products:      | sition   | CO, CO <sub>2</sub>   |  |  |
| Hazardous Polymeriz                 | zation:  | ☐ May Occur ☑ Will Not Occur                                |  |  |
| Conditions to Avo                   | oid:     | None  |  |  |
| SECTION 11 TO                       | XICOLO   | OGICAL INFORMATION  |  |  |
| Acute Toxicity:                     |          |   |  |  |
| Inhalation:                         | Not av   | railable  |  |  |
|                                     |          |   |  |  |
|                                     |          |   |  |  |
| T                                   | Estima   | ota - Pat I D50 > 5000 mg/kg                                |  |  |
| Ingestion:                          | Estillia | te: Rat, LD50 > 5000 mg/kg                                  |  |  |
|                                     |          |   |  |  |
|                                     |          |   |  |  |
| Eva                                 | Estimo   | to . Dakhit tuansiant alight againmatival imitation only    |  |  |
| Eye:                                | Estillia | ate: Rabbit, transient slight conjunctival irritation only. |  |  |
|                                     |          |   |  |  |
|                                     |          |   |  |  |
| C1-:                                | Estime   | ate : Rabbit, non irritant.                                 |  |  |
| Skin:                               | Esuma    | tte . Rabbit, non mitant.                                   |  |  |
|                                     |          |   |  |  |
|                                     |          |   |  |  |
| Sensitization:                      | Not av   | railable  |  |  |
| Sonstitution.                       | 11000    |   |  |  |
|                                     |          |   |  |  |
| Mutagenicity:                       | Estima   | ate : Ames Test (Salmonella typhimurium) : Negative         |  |  |
| Ç ,                                 |          |   |  |  |
|                                     |          |   |  |  |
| Reproductive                        | Not av   | ailable   |  |  |
| Toxicity:                           |          |   |  |  |
|                                     |          |   |  |  |

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| SECTION 11 TO                | XICOLOGICAL INFORMATIO   | N - Continued  |
|------------------------------|--|--|
| Carcinogenicity:             | Not available  |  |
|                              |  |  |
| Others:                      | in respirable-sized particles compared 1 mg/m3 which is most relevant to powas noted in 22% of the animals at 4 in 92% of the animals at 16 mg/m3. | onse upon chronic inhalation exposure in rats to a toner enriched to commercial toner. No pulmonary change was found at stential human exposure. A minimal to mild degree of fibrosis mg/m3, and a mild to moderate degree of fibrosis was observed These findings are attributed to "lung overloading", a generic dust retained in the lung for a prolonged interval. |
| SECTION 12 EC                | OLOGICAL INFORMATION   |  |
| Mobility:                    | Not available  |  |
| Persistence / Degradability: | Not available  |  |
| Bioaccumulation:             | Not available  |  |
| Ecotoxicity:                 | Not available  |  |
| Other Adverse<br>Effects:    | Not available  |  |
| SECTION 13 DIS               | SPOSAL CONSIDERATION   |  |
| Method of Disposal:          | Disposal should be subject to t  | ederal, state or local laws.   |
|                              |  |  |
|                              |  |  |
|                              |  |  |
| SECTION 14 TR                | ANSPORT INFORMATION  |  |
| UN #:                        | None   |  |
| UN Shipping Name:            | None   |  |
| UN Classification:           | None   |  |
| UN Packing Group:            | None   |  |
| Special Precautions:         | None   |  |
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| SECTION 15 REC                                       | SULATORY INFORMATION                                |                    |
|--|---|--------------------|
| EU Information:<br>Information on the                | Label:  |                    |
| Symbol &   | Not required  |                    |
| Indication:<br>R-Phrase:                             | Not required  |                    |
| S-Phrase:  | Not required  |                    |
| Dangerous<br>Component(s):                           | None  |                    |
| Specific Provision                                   | s in Relation to Protection of Man or the Environme | nt:                |
| 76/769/EEC:  | Not regulated                                       |                    |
| (EC)2037/2000:                                       | Not regulated                                       |                    |
| (EEC)2455/92:  | Not regulated                                       |                    |
| Others:  | None  |                    |
| USA Information: Information on the L                | abel  |                    |
| Signal Word:   | Not required  |                    |
| Hazard warning:                                      | Not required  |                    |
| Safety Advice:                                       | Not required  |                    |
| Hazardous<br>Component(s):                           | None  |                    |
| SARA Title III §313<br>Chemical Na                   |   | Weight %           |
|  | ng copper and zinc                                  | 96 wt% (Maximum)   |
| * *  | ompounds(As Copper metal)                           | (12 wt%(Maximum))  |
| Zinc and compounds(As Zinc metal) (12 wt% (Maximum)) |   | (12 wt% (Maximum)) |
| California Propositi                                 |   | ****               |
| <u>Chemical Nai</u><br>None                          | me  | Weight %           |
| None   |   |                    |
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| SECTION 16 | OTHER INFORMATION |
|------------|-------------------|
|            |                   |

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
- 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, 88/379/EEC
- EU Regulation (EC)2037/2000, (EEC)2455/92

#### 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.

"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.

"FHSA" stands for Federal Hazardous Substances Act.

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