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MSDS #: TC2243-0110

Product Code: 6272B / R10-7024

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier:** 

**Product Name:** Canon Cartridge 731 Black (for Laser Beam Printer)

**Product Code:** 6272B / R10-7024

Relevant Identified Uses: Toner for electrophotographic apparatus

**Details of Supplier of Safety Data Sheet: Supplier:**Canon Europa NV

Address: Bovenkerkerweg 59, 1185XB Amstelveen, The Nederlands

**Telephone Number:** +31 20 5458545, +31 20 5458222

E-mail Address: www.canon-europe.com, ceu-Reach@canon-europe.com

DENMARK: +45 82 12 12; GERMANY: +49 30 19240, +49 761 19240;

Emergency Telephone Number: BELGIUM & NETHERLANDS: +32 70 245 245; FRANCE: +33 1 40 05 48 48;

UK only 0845 4647; FINLAND: +358 9 471 977; SWEDEN: +46 8 33 12 31

**Manufacturer:** Canon Inc.

Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

SECTION 2 HAZARDS IDENTIFICATION

**Emergency Overview:** Black fine powder, slight plastic odor.

**US Regulatory Status under OSHA HCS:** 

Not classified as hazardous.

**US Label Elements under OSHA HCS:** 

Signal Word: Not required

Hazard Warning: Not required

Safety Advice: Not required

Hazardous Component: Not required

EU Classification under 1999/45/EC:

Not classified as dangerous.

**EU Label Elements under 1999/45/EC:** 

Symbol & Indication: Not required

**R-Phrase:** Not required

S-Phrase: Not required

**Dangerous Component:** Not required

Applicable Label Elements in accordance with Annex V to 1999/45/EC:

Not required

Other Hazards: None

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#### **SECTION 3** COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture

**Ingredient(s):** 

| Chemical Name/<br>Generic Name | CAS #/<br>EC #          | Concentration/             | EU Classification according to               |            | EU Classification according to                |  | Note to                        |
|--------------------------------|-------------------------|----------------------------|--|------------|---|--|--------------------------------|
|                                |                         | Concentration<br>Range (%) | 67/548/EE<br>Symbol/<br>Indication of Danger | R-Phrase*1 | (EC) No 127<br>Hazard Class/<br>Category Code | /2/2008<br>  Hazard<br>  Statement* <sup>1</sup> | Other<br>Hazards* <sup>2</sup> |
| Styrene acrylate copolymer     | Confidential            | 75-85                      | None   | None       | None  | None   |                                |
| Wax                            | Confidential            | 5-10                       | None   | None       | None  | None   |                                |
| Carbon black                   | 1333-86-4/<br>215-609-9 | 5-10                       | None   | None       | None  | None   | (1)                            |
| Amorphous silica               | 7631-86-9/<br>231-545-4 | 1-3                        | None   | None       | None  | None   | (1)                            |
|                                |                         |                            |  |            |   |  |                                |
|                                |                         |                            |  |            |   |  |                                |
|                                |                         |                            |  |            |   |  |                                |
|                                |                         |                            |  |            |   |  |                                |

<sup>\*1</sup> Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

# Carcinogen(s)

| Chemical Name        | CAS#      | Reference  |
|----------------------|-----------|--|
| Carbon black (5-10%) | 1333-86-4 | IARC: Group 2B.                                  |
|                      |           | NTP; OSHA; Part 3 of Annex VI to Regulation (EC) |
|                      |           | No 1272/2008: Not listed.                        |

<sup>\*2</sup> The following substance(s) is (are) marked with (1), (2) and/or (3)

<sup>(1)</sup> Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)

<sup>(2)</sup> PBT substance or vPvB substance under Regulation (EC) No 1907/2006

<sup>(3)</sup> Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

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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:**

Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately. Skin:

Wash with soap and water. If irritation persists, obtain medical advice.

#### Eve:

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.

#### Most Important Symptoms and Effects, both Acute and Delayed:

#### **Inhalation:**

Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

### **Ingestion:**

Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

#### Skin:

May be non-irritant.

#### Eve:

May cause transient slight irritation.

#### **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.

### Indication of Any Immediate Medical Attention and Special Treatment Needed:

None

#### **SECTION 5** FIRE FIGHTING MEASURES

#### **Extinguishing Media:**

## **Suitable Extinguishing Media:**

CO2, water, dry chemicals

### **Unsuitable Extinguishing Media:**

None

#### **Special Hazards:**

Can form explosive dust-air mixtures when finely dispersed in air.

## **Hazardous Combustion Products:**

CO2, CO

### **Advice for Fire-fighters:**

Wear gloves, glasses, a mask if necessary.

#### **SECTION 6** ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid breathing dust. Wash thoroughly after handling.

#### **Environmental Precautions:**

Do not wash away into sewer.

## Methods and Material for Containment and 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.



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### HANDLING AND STORAGE **SECTION 7 Precautions for Safe Handling:** Avoid breathing dust. Wash thoroughly after handling. Use with adequate ventilation. Conditions for Safe Storage, Including Any Incompatibilities: Keep out of the reach of children. Keep away from oxidizing materials. **Specific End Uses:** Toner for electrophotographic apparatus. For more information, please refer to the instruction of this product. **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION Control Parameters: USA** ACGIH TLV **EU OEL** OSHA PEL Product (Toner) PNOR: PNOS: Not established TWA 15 mg/m<sup>3</sup> TWA 10 mg/m<sup>3</sup> (Total dust), (Inhalable fraction), TWA 5 mg/m<sup>3</sup> TWA 3 mg/m<sup>3</sup> (Respirable fraction) (Respirable fraction) TWA 3.5 mg/m<sup>3</sup> TWA 3 mg/m<sup>3</sup> Carbon black Not established (Inhalable fraction) Not established Not established Amorphous silica 20 mppcf, 80 (mg/m<sup>3</sup>)/%SiO<sub>2</sub> **Exposure Controls: Engineering Controls:** No special ventilation equipment is needed under intended use of this product. **Individual Protection Measures: Eye/Face Protection:** ☐ Required

Not Required **Skin Protection:** ☐ Required Not Required **Respiratory Protection:** 

Required Not Required



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#### PHYSICAL AND CHEMICAL PROPERTIES **SECTION 9 Information on Basic Physical and Chemical Properties:** Appearance: Black fine powder Odor: Slight plastic odor pH: Not applicable **Melting Point/Freezing Point (°C):** 80-130 (Softening point) **Initial Boiling Point and** Not applicable **Boiling Range** (°C): Flash Point(°C): Not applicable Not applicable **Evaporation Rate:** Estimate: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability: Flammability (Solids)) (See SECTION 16) Upper/Lower Flammable or Not applicable **Explosive Limits:** Vapor Pressure: Not applicable **Vapor Density:** Not applicable **Relative Density:** 1.0 - 1.2Negligible Water Solubility: Partially soluble in toluene and xylene. **Fat Solubility:** Partition Coefficient (n-Octanol/Water): Not applicable **Auto-ignition Temperature (°C):** Not available **Decomposition Temperature (°C):** > 200 Viscosity (mPa s): Not applicable Can form explosive dust-air mixtures when finely dispersed in air. **Explosive Properties: Oxidizing Properties:** Not available **Other Information:** Not available **SECTION 10** STABILITY AND REACTIVITY Reactivity: None **⊠** Stable **Chemical Stability:** Possibility of Hazardous Reactions: None **Conditions to Avoid:** None **Incompatible Materials:** Strong oxidizers Hazardous Decomposition Products: CO, CO2



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#### TOXICOLOGICAL INFORMATION **SECTION 11**

**Information on Toxicological Effects:** 

**Acute Toxicity:** 

**Inhalation:** 

Not available

**Ingestion:** 

Estimate: Rat, LD50 > 2000 mg/kg (See SECTION 16)

**Corrosivity/Irritation:** 

Skin:

Estimate: Rabbit, non-irritant (See SECTION 16)

Eye:

Estimate: Rabbit, transient slight conjunctival irritation only. (See SECTION 16)

**Sensitization:** 

Skin:

Estimate: Non-sensitizing (See SECTION 16)

### **Repeated Dose Toxicity:**

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  $mg/m^3$ .

These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.

#### **Carcinogenicity:**

The IARC evaluated carbon black as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black at levels that induce particle overload of the lung. However, there is a two-year inhalation study of a toner containing carbon black which demonstrated no association between toner exposure and tumor development in rats.

### **Mutagenicity:**

Ames Test (S. typhimurium, E. coli): Negative

### **Toxicity for Reproduction:**

Not available

### Other Information:

Not available



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**ECOLOGICAL INFORMATION SECTION 12** 

**Toxicity:** Estimate: Fish, 96h LC50 > 100 mg/l

Estimate: Crustaceans, 48h EC50 > 100 mg/l

Estimate: Algae, ErC50(0-72h) > 100 mg/l (See SECTION 16)

Persistence and Degradability: Not available

**Bioaccumulative Potential:** Not available

**Mobility in Soil:** Not available

Results of PBT and vPvB No results that the component(s) of this toner meet(s) the PBT or vPvB criteria

**Assessment:** under Regulation (EC) No 1907/2006.

**Other Adverse Effects:** Not available

#### **SECTION 13** DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods:**

DO NOT put toner or toner container into fire; heated toner may cause severe burns. DO NOT shred a toner container, unless dust-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures in air. Disposal should be subject to federal, state and local laws.

#### **SECTION 14** TRANSPORT INFORMATION

**UN Number:** None

**UN Proper Shipping Name:** None

**Transport Hazard Class:** None

**Packing Group:** None

Not classified as environmentally hazardous under UN Model Regulations and **Environmental Hazards:** 

marine pollutant under IMDG Code.

**Special Precautions for User:** None

#### **SECTION 15** REGULATORY INFORMATION

< USA Information >

**SARA Title III §313:** 

**Chemical** Name Weight %

None

California Proposition 65:

Weight % **Chemical Name** 

None

< EU Information >

Safety, Health and Environmental Regulations/Legislation:

Not regulated (EC) No 1907/2006: Authorisation:

> Not regulated **Restriction:**

(EC) No 1005/2009: Not regulated

(EC) No 850/2004: Not regulated

(EC) No 689/2008: Not regulated

Others: None

Chemical Safety Assessment under (EC) No 1907/2006: Not required



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SECTION 15 REGULATORY INFORMATION (continued)

< Canada Information >

WHMIS Controlled Product: Not applicable (Manufactured article)

< Australia Information >

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

#### SECTION 16 OTHER INFORMATION

<Term explanation>

Estimate: Estimate based on data of similar product or the ingredient(s) of this product.

#### **Literature References:**

- 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
- EU Directive 1999/45/EC
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

#### Abbreviations:

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)

FHSA: Federal Hazardous Substances Act (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative SVHC: Substances of Very High Concern

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program (USA)

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA) ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists

 $EU\ OEL:\ Occupational\ exposure\ limits\ at\ Community\ level\ under\ Directive\ 2004/37/EC,\ 98/24/EC,\ 91/322/EEC,\ 2000/39/EC,\ 2006/15/EC\ and\ 2004/37/EC,\ 98/24/EC,\ 91/322/EEC,\ 2000/39/EC,\ 2006/15/EC\ and\ 2004/37/EC,\ 2006/15/EC\ and\ 2004/37/EC\ a$ 

2009/161/EU

TWA: Time Weighted Average STEL: Short Term Exposure Limit

PNOR: Particulates Not Otherwise Regulated

PNOS: Particles (insoluble or poorly soluble) Not Otherwise Specified WHMIS: Workplace Hazardous Materials Information System NOHSC: National Occupational Health and Safety Commission

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