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Product Code: 6271B / R10-7023

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

**Product Identifier:** 

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

**Product Code:** 6271B / R10-7023

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 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:** 

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

**SECTION 2** HAZARDS IDENTIFICATION

Emergency Overview: Cyan 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/	CAS #/	Concentration/			EU Classification according to		Note to Other
Generic Name	EC#	Concentration Range (%)	67/548/EE Symbol/ Indication of Danger	R-Phrase*1	(EC) No 127 Hazard Class/ Category Code	Hazard   Statement* <sup>1</sup>	Hazards*2
Styrene acrylate copolymer	Confidential	75-85	None	None	None	None	
Wax	Confidential	5-10	None	None	None	None	
Pigment	Confidential	5-10	None	None	None	None	
Amorphous silica	7631-86-9/ 231-545-4	1-3	None	None	None	None	(1)
Titanium dioxide	13463-67-7/ 236-675-5	< 1	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 Titanium dioxide (< 1%) 13463-67-7 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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SECTION 7	HANDLING A	AND STORA	GE			
<b>Precautions for</b>	Safe Handling:					
Avoid breathing dust. Wash thoroughly after handling.						
Use with ac	dequate ventilation					
<b>Conditions for S</b>	Safe Storage, Incl	uding Any In	compatibilities:			
Keep out or	Keep out of the reach of children.					
Keep away	from oxidizing ma	aterials.				
Specific End U	ses:					
Toner for electrophotographic apparatus.						
For more in	nformation, please	refer to the ins	struction of this product.			
SECTION 8	EXPOSURE (	CONTROLS /	PERSONAL PROTECT	TION		
Control Paran	neters:	USA	ACGIH TLV	EU OEL		

# OSHA PEL Product (Toner) PNOS: PNOR: Not established TWA 10 mg/m<sup>3</sup> TWA 15 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) 20 mppcf, Not established Not established Amorphous silica 80 (mg/m<sup>3</sup>)/%SiO<sub>2</sub> Titanium dioxide TWA 15 $mg/m^3$ TWA $10 \text{ mg/m}^3$ Not established (Total dust) **Exposure Controls:** No special ventilation equipment is needed under intended use of this product.

# **Engineering Controls: Individual Protection Measures: Eye/Face Protection:** ☐ Required Not Required **Skin Protection:** ☐ Required Not Required Respiratory Protection: $\square$ Required Not Required



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	CHEMICAL PROPERTIES  Shaminal Drangetings			
Information on Basic Physical and C Appearance:	Cyan fine powder			
Odor:	Slight plastic odor  Not applicable  80-130 (Softening point)			
pH:				
<b>Melting Point/Freezing Point (°C):</b>				
Initial Boiling Point and Boiling Range (°C):	Not applicable			
Flash Point(°C):	Not applicable			
<b>Evaporation Rate:</b>	Not applicable			
Flammability:	Estimate: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) (See SECTION 16)			
Upper/Lower Flammable or Explosive Limits:	Not applicable			
Vapor Pressure:	Not applicable			
Vapor Density:	Not applicable			
Relative Density:	1.0-1.2			
Water Solubility:	Negligible			
Fat Solubility:	Partially soluble in toluene and xylene.			
Partition Coefficient (n-Octanol/Wa	Not applicable			
Auto-ignition Temperature (°C):	Not available			
Decomposition Temperature (°C):	> 200			
Viscosity (mPa s):	Not applicable			
<b>Explosive Properties:</b>	Can form explosive dust-air mixtures when finely dispersed in air.			
Oxidizing Properties:	Not available			
Other Information:	Not available			
SECTION 10 STABILITY AND	REACTIVITY			
Reactivity:	None			
Chemical Stability:	<ul><li></li></ul>			
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 titanium dioxide as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the evidence such as development of lung tumors in rats receiving chronic inhalation exposure to powdered titanium dioxide at levels that induce particle overload of the lung.

However, there is an inhalation study of a toner containing titanium dioxide which suggested 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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