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Product Code: 6948B / F42-5435

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

Product Identifier:

Canon C-EXV 45 Yellow Toner **Product Name:**

Product Code: 6948B / F42-5435

Relevant Identified Uses: Toner for electrophotographic apparatus

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

Bovenkerkerweg 59, 1185XB Amstelveen, The Nederlands Address:

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

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

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: Yellow 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/ Generic Name	CAS #/ EC #	Concentration/ Concentration Range (%)	67/548/EEC		EU Classification according to (EC) No 1272/2008 Hazard Class/ Hazard		Note to Other
			Symbol/ Indication of Danger	R-Phrase*1	Hazard Class/ Category Code	Hazard Statement*	Hazards*2
Polyester resin	Confidential	80-90	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)

^{*1} Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

Carcinogen(s)

Chemical Name CAS# Reference Titanium dioxide (< 1%) IARC: Group 2B. 13463-67-7 NTP; OSHA; Part 3 of Annex VI to Regulation (EC) No 1272/2008: Not listed.

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^{*2} The following substance(s) is (are) marked with (1), (2) and/or (3)

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

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

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

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SECTION 4 FIRST AID MEASURES

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.

Eye:

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 AND STORAGE
Precautions for	Safe Handling:
Avoid brea	athing dust. Wash thoroughly after handling.
Use with a	dequate ventilation.
Conditions for	Safe Storage, Including Any Incompatibilities:
Keep out o	of the reach of children.
Keep away	from oxidizing materials.
Specific End U	Jses:
Toner for	electrophotographic apparatus.
For more i	nformation, please refer to the instruction of this product.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION Control Parameters: ACGIH TLV EU OEL USA OSHA PEL Product (Toner) PNOR: PNOS: Not established TWA 15 mg/m³ TWA 10 mg/m³ (Total dust), (Inhalable fraction), TWA 5 mg/m³ TWA 3 mg/m³ (Respirable fraction) (Respirable fraction) 20 mppcf, Amorphous silica Not established Not established 80 (mg/m³)/%SiO₂ Titanium dioxide TWA 10 mg/m^3 Not established TWA 15 mg/m³ (Total dust)

Titanium dioxide TWA 15 mg/m³ (Total dust) TWA 10 mg/m³ Not established 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 Not Required Not Required Not Required Respiratory Protection: Required Required

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Not Required



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES						
Information on Basic Physical and C	hemical Properties:					
Appearance:	Yellow fine powder					
Odor:	Slight plastic odor					
рН:	Not applicable					
Melting Point/Freezing Point (°C):	85-120 (Softening point)					
Initial Boiling Point and Boiling Range (°C):	Not applicable					
Flash Point(°C):	Not applicable					
Evaporation Rate:	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:	1.0-1.5					
Water Solubility:	Negligible					
Fat Solubility:	Partially soluble in toluene and xylene.					
Partition Coefficient (n-Octanol/Wa	ter): Not applicable					
Auto-ignition Temperature ($^{\circ}$ C):	Not available					
Decomposition Temperature (${}^{\circ}C$):	> 200					
Viscosity (mPa s):	Not applicable					
Explosive Properties:	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:	Stable Unstable					
Possibility of Hazardous Reactions:	one					
Conditions to Avoid:	None					
Incompatible Materials:	rong oxidizers					
Hazardous Decomposition Products:	CO. CO2					

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SECTION 11 TOXICOLOGICAL INFORMATION

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^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.

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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