

SECTION 1 I	DENTIFICATION OF THE SUBSTANCE/MIXTURE AND O	<b>Е ТНЕ</b>
	OMPANY/UNDERTAKING	
Product Name:	Canon Cartridge 925 (for Laser Beam Printer)	
Product Code:	3484B / R00-7005	Supplier: Canon Singapore Pte Ltd 1 HarbourFront Avenue,
Company Name:	Canon Inc.	#04-01, Keppel Bay Towe
Address:	30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan	Singapore 098632
Use of the Product:	Toner for electrophotographic apparatus	cspl_msds@canon.com.sg
SECTION 2 H	AZARDS IDENTIFICATION	
EU Classification:	Not classified as dangerous.	
Emergency Overviev	W: Black fine powder, slight plastic odor.	
Potential Health Eff	ects and Symptoms:	
Inhalation:		
Exposure to ex	ccessive amounts of dust may cause physical irritation to respirator	y tract.
Ingestion:		
	icity. Ingestion is a minor route of entry for intended use of this pro-	oduct.
Eye:	and any other to the test of the	
	nsient slight irritation.	
Skin:		
May be non-ir		
Chronic Effects:	alation of excessive amounts of dust may cause lung damage. Use	of this product as intended
U	in inhalation of excessive amounts of dust may cause fung damage. Use of the inhalation of excessive amounts of dust.	or this product as intended
Not determine	ons Generally known to be Aggravated by Exposure:	
Not determine	u	

Chemical Name / Generic Name	CAS # / EC #	Weight %	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Styrene acrylate copolymer	Confidential	45-55	None/ None	Not established	Not established	Not established	Not established
Ferrite	Confidential	35-45	None/ None	Not established	Not established	Not established	Not established
Wax	Confidential	5-10	None/ None	Not established	Not established	Not established	Not established

# < Carcinogen >

No component of this toner is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) No 1272/2008.

## < PBT substance and vPvB substance >

No component of this toner is a PBT or vPvB subtance under Regulation (EC) No 1907/2006.



# 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.

#### Eye:

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.

## Skin:

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

#### Note to Physicians:

None

## SECTION 5 FIRE FIGHTING MEASURES

# **Fire Fighting Measures:**

#### **Extinguishing Media:**

CO2, water, dry chemicals

### **Unsuitable Extinguishing Media:**

None

## **Special Fire Fighting Procedures:**

None

#### **Unusual Fire and Explosion Hazards:**

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

## Fire and Explosive Properties (See also SECTION 9):

## Hazardous Combustion Products:

CO2, CO

#### **Other Properties:**

Not available

# SECTION 6 ACCIDENTAL 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 HANDLING AND STORAGE

#### Handling:

Avoid breathing dust.

Use with adequate ventilation.

## Storage:

Keep out of the reach of children.

Keep away from oxidizing materials.

## Specific Uses:

Toner for electrophotographic apparatus.

For more information, please refer to the instruction of this product.

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Exposure Guidelines:**

USA OSHA PEL (TWA):	$15 \text{ mg/m}^3$ (Total dust), $5 \text{ mg/m}^3$ (Respirable fraction)		
ACGIH TLV (TWA):	10 mg/m <sup>3</sup> (Inhalable fraction), 3 mg/m <sup>3</sup> (Respirable fraction)		
DFG MAK:	4 mg/m <sup>3</sup> (Inhalable fraction), 1.5 mg/m <sup>3</sup> (Respirable fraction)		
(Also refer to SECTION 3)			

# **Engineering Controls:**

Use adequate ventilation.

# **Personal Protection Equipment(s):**

<b>Respiratory Protection:</b>	
	Not Required
Eye/Face Protection:	Required
	Not Required
Skin Protection:	Required
	Not Required

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black fine powder
Odor:	Slight plastic odor
рН:	Not applicable
Boiling Point/Range(°C):	Not applicable
Melting Point/Range(°C):	100-150 (Softening point)
<b>Decomposition Temperature(°C):</b>	> 200
Flash Point(°C):	Not applicable
Flammable (Explosive) Limits:	Not applicable
Autoignition Temperature(°C):	Not available
Flammability:	Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))
Explosive Properties:	Can form explosive dust-air mixtures when finely dispersed in air.
Oxidizing Properties:	Not available
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Density / Specific Gravity:	1.4-1.8
Water Solubility:	Negligible
Fat Solubility:	Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Water):	Not applicable
Percent Volatile:	Negligible
Evaporation Rate:	Not applicable
Viscosity (mPa s):	Not applicable

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Canon .		MSDS #:	TC1953-0104
N	MATERIAL SAFETY DATA SHEET	Product Code:	3484B / R00-7005
SECTION 10 STABILITY AN	D REACTIVITY		
Stability:	⊠ Stable □ Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Product	s: CO, CO2		
Hazardous Polymerization:	☐ May Occur ⊠ Will Not Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOLOGIC	CAL INFORMATION		
Acute Toxicity: Inhalation: Not available			
Ingestion: Estimate: Rat, LD50 > 2000 m	ng/kg (See SECTION 16)		
Eye: Estimate: Rabbit, transient slig	tht conjunctival irritation only. (See SECTION 16	ō)	
Skin: Estimate: Rabbit, non-irritant (	(See SECTION 16)		
Sensitization: <u>Estimate: skin: Non-sensitizin</u>	g (See SECTION 16)		
Mutagenicity: Ames Test (S. typhimurium, E	. coli): Negative		
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
Others:			
respirable-sized particles comp is most relevant to potential hu	ry response upon chronic inhalation exposure in r pared to commercial toner. No pulmonary change iman exposure. A minimal to mild degree of fibro d to moderate degree of fibrosis was observed in 9	was found at osis was noted	1 mg/m <sup>3</sup> which in 22% of the

# mg/m<sup>3</sup>.

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



# MATERIAL SAFETY DATA SHEET

# **SECTION 12 ECOLOGICAL INFORMATION** Mobility: Not available Persistence / Degradability: Not available **Bioaccumulation:** Not available Estimate: Fish, 96h LL50 > 1000 mg/l (WAF) **Ecotoxicity:** Estimate: Crustaceans, 48h EL50 > 1000 mg/l (WAF) Estimate: Algae, ErL50(0-72h) > 1000 mg/l (WAF) (See SECTION 16) **Other Adverse Effects:** Not available **SECTION 13** DISPOSAL CONSIDERATIONS Method of Disposal: 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 #: 2807 UN Shipping Name: Magnetized material **UN Classification:** 9 UN Packing Group: None **Marine Pollutant: U** Yes Chemical name (wt%): $\boxtimes$ No Special Precautions: 105 or more of these products shipped together, by air, are regulated as magnetized material. **REGULATORY INFORMATION SECTION 15** < EU Information > Information on the Label: Symbol & Indication: Not required **R-Phrase:** Not required **S-Phrase:** Not required **Dangerous Component(s):** Not required Special Precautions under 1999/45/EC Annex V: Not required Specific Provisions in Relation to Protection of Man or the Environment: (EC) No 1907/2006 Annex XVII (Restrictions): Not regulated (EC) No 1005/2009: Not regulated (EC) No 689/2008: Not regulated **Others:** None

< USA Information >		
Information on the Label under O	SHA:	
Signal Word: Not required		
Hazard warning: Not required		
Safety Advice: Not required		
Hazardous Component(s): Not required		
SARA Title III §313:		
Chemical Name		Weight %
None		
California Proposition 65:		
Chemical Name		Weight %
None		
< Canada Information >		
WHMIS Controlled Product:	Not applicable (Manufactured article)	
< Australia Information > Statement of Hazardous Nature:	Not classified as hazardous according to criteria of	NOHSC.
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# SECTION 16 OTHER INFORMATION

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials 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

- DFG, List of MAK and BAT Values

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

# Canon

#### Abbreviations:

EU: European Union.

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 ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC, 2000/39/EC and 2006/15/EC.

DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average.

STEL: Short Term Exposure Limit.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program (USA).

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

FHSA: Federal Hazardous Substances Act (USA).

WHMIS: Workplace Hazardous Materials Information System.

NOHSC: National Occupational Health and Safety Commission.

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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