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Product Code: 2662B / R04-8034

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Cartridge 118 Black VP (for Laser Beam Printer)

Product Code: 2662B / R04-8034

Manufacturer: Canon Inc.,30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph# 03-3758-2111.

Canon USA Inc. One Canon Park, Melville, NY 11747, USA Supplier:

Phone #: 1-800-OK-CANON 24Hr. Emergency CHEMTREC# 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

EU Classification: Not classified as dangerous.

Emergency Overview: Black fine powder, slight plastic odor.

Potential Health Effects and Symptoms:

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.

May cause transient slight irritation.

Skin:

May be non-irritant.

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.

Medical Conditions Generally known to be Aggravated by Exposure:

Not determined

SECTION 3	COMPOSITION/INFORMATION ON INGREDIENTS						
< Ingredient(s) > Chemical Name / Generic Name	CAS # / EC #	Weight	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Styrene acrylate copolymer	Confidential	75-85	None/ None	Not established	Not established	Not established	Not established
Wax	Confidential	5-10	None/ None	Not established	Not established	Not established	Not established
Carbon black	1333-86-4/ 215-609-9	1-6	None/ None	3.5 mg/m ³ (TWA)	3.5 mg/m ³ (TWA)	Not established	Not established
Amorphous silica	7631-8-9/ 231-545-4	1-2	None/ None	20 mppcf, 80 (mg/m ³)/%SiO ₂	Not established	Not established	4 mg/m ³ (Inhalable fraction)

< Carcinogen >

Chemical Name CAS# Reference 1333-86-4 IARC: Group 2B. NTP; OSHA; Part 3 of Annex VI Carbon black (1-6%) to Regulation (EC) 1272/2008: Not listed.

< PBT substance and vPvB substance >

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

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.



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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:				
ACGIH TLV (TWA): 10 mg/m ³ (l	Total dust), 5 mg/m³ (Respirable fraction) (nhalable fraction), 3 mg/m³ (Respirable fraction) (nhalable fraction), 1.5 mg/m³ (Respirable fraction)			
Engineering Controls: Use adequate ventilation.				
Personal Protection Equipment(s):				
Respiratory Protection: Required Mot Required				
Eye/Face Protection: Required Not Required				
Skin Protection: ☐ Required ☐ Not Requ				
SECTION 9 PHYSICAL AND CH	IEMICAL PROPERTIES			
Appearance:	Black fine powder			
Odor:	Slight plastic odor			
рН:	Not applicable			
Boiling Point/Range($^{\circ}$ C):	Not applicable			
Melting Point/Range(°C):	80-130 (Softening point)			
Decomposition Temperature (°C):	> 200			
Flash Point(°C):	Not applicable			
Flammable (Explosive) Limits:	Not applicable			
Autoignition Temperature ($^{\circ}$ 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:	1.0-1.2			
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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SECTION 10 STABILITY AND REACTIVITY			
Stability:			
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Products:	CO, CO2		
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOLOGICAL INFORMATION			
Acute Toxicity: Inhalation: Not available			
Ingestion: Estimate: Rat, LD50 > 2000 mg	/kg (See SECTION 16)		
Eye: Estimate: Rabbit, transient sligh	at conjunctival irritation only. (See SECTION 16)		
Skin:			
Estimate: Rabbit, non-irritant (S	ee SECTION 16)		
Sensitization: Estimate: skin: Non-sensitizing	(See SECTION 16)		
Mutagenicity: Ames Test (S. typhimurium, E.	coli): Negative		
Reproductive Toxicity: Not available			
Carcinogenicity: The IARC evaluated carbon blace	ck 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.

Others:

Chronic effects:

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/m³ 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/m³, 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.

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MSDS #: MATERIAL SAFETY DATA SHEET Product Code: 2662B / R04-8034

SECTION 12 ECO	LOGICAL INFORMATION				
Mobility:	Not available				
Persistence / Degradabil	lity: Not available				
Bioaccumulation:	Not available				
Ecotoxicity:	Estimate: Fish, 96h LL50 > 1000 mg/l (WAF) Estimate: Crustaceans, 48h EL50 > 1000 mg/l (WAF) Estimate: Algae, EbL50(72h), ErL50(0-72h) > 1000 mg/l (WAF) (See SECTION 16)				
Other Adverse Effects:	Not available				
SECTION 13 DISP	OSAL CONSIDERATIONS				
container, unless dust- mixtures in air. Dispo	toner container into fire; heated toner may cause severe burns. DO NOT shred a toner explosion preventing measures are taken. Finely dispersed particles form explosive sal should be subject to federal, state and local laws.				
	NSPORT INFORMATION				
	None				
UN Shipping Name: Nor					
UN Classification: Nor					
UN Packing Group: Nor					
Marine Pollutant:	Yes Chemical name (wt%): No				
Special Precautions: Nor	ne				
SECTION 15 REG	ULATORY INFORMATION				
< EU Information >					
Information on the La					
Symbol & Indication R-Phrase:	n: Not required				
Not required					
S-Phrase: Not required					
Dangerous Compon Not required	ent(s):				
Special Precautions Not required	under 1999/45/EC Annex V:				
-	Relation to Protection of Man or the Environment:				
(EC)2037/2000: Not	Not regulated				
(EC)689/2008: Not	Not regulated				
` ′	None				



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< USA Information >

Information on the Label under OSHA:

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.

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 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)689/2008, (EC)1907/2006, (EC)1272/2008
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]



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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). WAF: Water Accommodated Fraction

LL: Lethal Loading rate EL: Effective Loading rate

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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