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MATERIAL SAFETY DATA SHEET

MSDS #: TC1035-0202

Product Code: 7833A / H11-6481

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon S35 Cartridge (for Copier/Printer)

Product Code: 7833A / H11-6481

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

Supplier: Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA

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

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

_					
< I	ngre	ediei	nt(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	45-55	None/ None	Not established	Not established	Not established	Not established
Iron oxide	1317-61-9/ 215-277-5	40-50	None/ None	Not established	Not established	Not established	Not established
Amorphous silica	7631-86-9/ 231-545-4	1-3	None/ None	20mppcf, 80(mg/m³)/%SiO ₂	10mg/m³(TWA)	Not established	4mg/m³ (Inhalable fraction)

< Carcinogen >

Chemical Name CAS # Reference

No component of this toner is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 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 based on animal testing. Ingestion is a minor route of entry for intended use of this product.

Eye:

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

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MATERIAL SAFETY DATA SHEET

MSDS #: TC1035-0202 Product Code: 7833A / H11-6481

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 EXPOST Exposure Guidelines:	URE CONTR	OLS / PERSONAL PROTECTION		
USA OSHA PEL (TWA): 15 mg/m³ (Total dust), 5 mg/m³ (Respirable fraction) ACGIH TLV (TWA): 10 mg/m³ (Inhalable fraction), 3 mg/m³ (Respirable fraction) DFG (MAK): 4 mg/m³ (Inhalable fraction), 1.5 mg/m³ (Respirable fraction) (Also refer to SECTION 2)				
Engineering Controls: Use adequate ventilation.				
Personal Protection Equipm	nent(s):			
Respiratory Protection: ☐ Required ☑ Not Requi		ired		
Eye/Face Protection:	☐ Required Not Required			
Skin Protection:	☐ Required ☑ Not Required			
SECTION 9 PHYSIC	CAL AND CH	EMICAL PROPERTIES		
Appearance:		Black fine powder		
Odor:		Slight plastic odor		
pH:		Not applicable		
Boiling Point/Range (°C):		Not applicable		
Melting Point/Range(°C):		100 - 150 (Softening point)		
Decomposition Temperature (°C):		>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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MATERIAL SAFETY DATA SHEET

MSDS #: TC1035-0202 Product Code: 7833A / H11-6481

SECTION 10 STABILITY AND	REACTIVITY		
Stability:	Stable Unstable Unstable		
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 TOXICOLOGICA	AL INFORMATION		
Acute Toxicity: Inhalation: Not available Ingestion: Rat, LD50 > 2000mg/kg Eye: Rabbit, transient slight conjunctive	val irritation only.		
Skin: Rabbit, non-irritant			
Sensitization: Guinea pig, skin: Non-sensitizing	9		
Mutagenicity: Ames Test (S.typhimurium, E.coli): Negative			
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
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 1mg/m³ which is most relevant to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at 4mg/m³, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16mg/m³. 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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Canon

MATERIAL SAFETY DATA SHEET

MSDS #: TC1035-0202 Product Code: 7833A / H11-6481

SECTION 12 E	COLOG	ICAL INFORMATION		
Mobility:		Not available		
Persistence / Degrad	ability:	Not available		
Bioaccumulation:		Not available		
Ecotoxicity:		Not available		
Other Adverse Effec	ts:	Not available		
SECTION 13 D	ISPOSA	L CONSIDERATION		
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 T	RANSP	ORT INFORMATION		
UN #:	2807			
UN Shipping Name:	Magnetiz	zed material		
UN Classification:	9			
UN Packing Group:	None			
	ollutant: ☐ Yes Chemical name (wt%): ☐ No			
	79 or mo	ore of these products shipped together, by air, are regulated as magnetized material.		
SECTION 15 R	EGULA	TORY INFORMATION		
< EU Information >				
Information on the Symbol & Indica		ot required		
R-Phrase: Not required		•		
S-Phrase: Not required				
Dangerous Component(s): None				
Special Precaution Not required	ons unde	r 1999/45/EC Annex V:		
-	in Relati Not regu	on to Protection of Man or the Environment: lated		
(EC)2037/2000:	Not regu	lated		
(EC)304/2003:	Not regu	Tot regulated		
Others:	None			
< USA Information >				
Information on the Label:				
	Not required			
Hazard warning: Not required				

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MATERIAL SAFETY DATA SHEET

MSDS #: TC1035-0202 Product Code: 7833A / H11-6481

Safety Advice:

Not required

Hazardous Component(s):

None

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

Revised information from the previous version:

Partially revised

Section 1

Literature Reference:

- 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)304/2003
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

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 and 2000/39/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.

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