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# MATERIAL SAFETY DATA SHEET

MSDS #: TN1272-0105 Product Code: 0386B / F42-7501

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

**Product Name:** Canon GPR-22 Black Toner

**Product Code:** 0386B / F42-7501

Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

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

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

# SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

	_				
< 1	Ingi	•edi	ent	(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	20 mppcf, (80mg/m³)/%SiO <sub>2</sub>	10 mg/m³ (TWA)	Not established	4 mg/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. 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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Revised:



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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.

Revised:

# 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 EXPOSE	URE CONTR	OLS / PERSONAL PROTECTION			
<b>Exposure Guidelines:</b>					
USA OSHA PEL (TWA): ACGIH TLV (TWA): DFG (MAK): (Also refer to SECTION 2)	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)				
<b>Engineering Controls:</b> Use adequate ventilation.					
Personal Protection Equipm	nent(s):				
Respiratory Protection:	☐ Required  Not Requ	ired			
Eye/Face Protection:	n: ☐ Required  Not Required				
Skin Protection: ☐ Required ☐ Not Required					
SECTION 9 PHYSIC	AL AND CH	EMICAL PROPERTIES			
Appearance:		Black fine powder			
Odor:		Slight plastic odor			
pH:		Not applicable			
<b>Boiling Point/Range(°C):</b>		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			
<b>Autoignition Temperature</b> (	°C):	Not available			
Flammability:		Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))			
<b>Explosive Properties:</b>		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.			
<b>Partition Coefficient (n-Octanol/Water):</b>		Not applicable			
Percent Volatile:		Negligible			
<b>Evaporation Rate:</b>		Not applicable			
Viscosity (mPa s):		Not applicable			

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SECTION 10 STABILITY AND	REACTIVITY			
Stability:	■ Stable     Unstable			
Conditions to Avoid:	None			
Materials to Avoid:	Strong oxidizers CO, CO2			
<b>Hazardous Decomposition Products:</b>				
Hazardous Polymerization:	☐ May Occur  ☑ Will Not Occur			
Conditions to Avoid:	None			
SECTION 11 TOXICOLOGICA	AL INFORMATION			
Acute Toxicity: Inhalation: Not available				
<b>Ingestion:</b> Estimate: Rat, LD50 > 2000 mg/	kg (See Section 16)			
Eye: Estimate: Rabbit, transient slight	conjunctival irritation only. (See Section 16)			
Skin: Estimate: Rabbit, non-irritant (Se	ee Section 16)			
<b>Sensitization:</b> Estimate: Guinea pig, skin: Non-	sensitizing (See Section 16)			
Mutagenicity: Estimate: Ames Test (S. typhimu	urium, E. coli): Negative (See Section 16)			
Reproductive Toxicity: Not available				
Carcinogenicity: Not available				
respirable-sized particles compar	response upon chronic inhalation exposure in rats to a toner enriched in ed to commercial toner. No pulmonary change was found at 1 mg/m³ which is 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/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

Others:

None

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ECOLOGICAL INFORMATION **SECTION 12** Mobility: Not available Persistence / Degradability: Not available **Bioaccumulation:** Not available **Ecotoxicity:** Estimate: Fish (Rainbow trout), 96h LL50 > 1000 mg/l (WAF) Estimate: Crustaceans (Daphnia magna), 48h EL50 > 1000 mg/l (WAF) Estimate: Algae (Scenedesmus subspicatus), EbL50(72h), 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 #: None **UN Shipping Name:** None **UN Classification:** None **UN Packing Group:** None Chemical name (wt%): **⋈** No **Special Precautions:** None **SECTION 15** REGULATORY INFORMATION < 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: 76/769/EEC: Not regulated (EC)2037/2000: Not regulated (EC)304/2003: Not regulated

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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 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]

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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 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).

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.

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