



MATERIAL SAFETY DATA SHEET

24 hr. Emergency Contact
CHEMTREC: 800-424-9300

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F42-3201-700
TN0259-0101

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Canon GPR-2 Black Toner for Copier
 Product Code: F42-3201-700
 Manufacturer: Canon Inc.
 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan
 Phone: 03-3758-2111
 Supplier: Canon USA, Inc.
 One Canon Plaza, Lake Success, NY 11042
 Phone: 1-800-OK-CANON
 MSDS #: TN0259-0101

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)

Chemical Name	CAS #	Weight %	EU Symbol	EU R-Phrase
None				

Chemical Name	USA OSHA PEL	ACGIH TLV
None		

Chemical Name	EU ILV	DFG MAK
None		

Carcinogen

Chemical Name	CAS#	Reference
None		

Other Ingredient(s)

Chemical Generic Name	Weight %
Polyester resin	45-60
Iron oxide (1317-61-9)	40-55

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Black fine powder, slight plastic odor.

Potential Health Effects and Symptoms:

Inhalation: Minimal respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust.

Ingestion: Ingestion is not applicable route of entry for intended use.

Eye: May cause eye irritation.

Skin: Unlikely to cause skin irritation.

Chronic Effects:
Not known.

Medical Conditions generally known to be Aggravated by Exposure:
Not identified.

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation: Remove victim to fresh air.
Get medical attention if symptoms persist.

Ingestion: Dilute stomach contents with several glasses of water.
Get medical attention if symptoms persist.

Eye: Flush with running water for at least 15 minutes.
If irritation persists, get medical attention.

Skin: Wash with soap and water.
If irritation persists, get medical attention.

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: Toner material, like most organic material in powder form, is capable of creating a dust explosion.

Fire and Explosive Properties

Flash Point (°C): No data available

Flammable (Explosive) Limits: No data available

Autoignition Temperature No data available

Flammability Non-flammable solid(according to test methods of USA 16 CFR 1500.44 and Annex V of EU Directive 84/449/EEC).

Autoflammability: Not applicable

Explosive Properties: See "Unusual Fire and Explosion Hazards".

Oxidizing Properties: No data available

Hazardous Combustion Products: CO2, CO



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Other Properties: Not known.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid breathing dust.
Use with adequate ventilation.

Environmental Precautions: Do not wash away into sewer.

Method for Cleaning Up: Sweep material onto paper and carefully transfer to a sealable waste container.
If a vacuum is used, the motor must be rated as dust tight.
A conductive hose bonded to the machine should be used to reduce static buildup.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid breathing dust.
Use with adequate ventilation.
Wash thoroughly after handling.

Storage: Keep out of reach of children.
Keep from contact with oxidizing materials.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: USA OSHA(TWA/PEL): 15mg/m3 (Total dust)
5mg/m3 (Respirable fraction)
ACGIH(TWA/TLV): 10mg/m3 (Inhalable particulate)
3mg/m3 (Respirable particulate)
DFG (MAK) : 4 mg/m3 (Inhalable fraction)
1.5 mg/m3 (Respirable fraction) (Also refer to SECTION 2)

Engineering Controls: Good general ventilation should be sufficient under intended use.

Personal Protection Equipment(s):

Respiratory Protection: Required
 Not required

Eye/Face Protection: Required
 Not required

Skin Protection: Required
 Not required

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black fine powder
Odour:	Slight plastic odor
pH:	Not applicable
Boiling Point / Range (°C):	Not applicable
Melting Point / Range (°C):	100 - 150°C(Softening point)
Decomposition Temperature (°C):	No data available
Flash Point (°C):	No data available
Flammable (Explosive) Limits:	No data available
Autoignition Temperature (°C):	No data available
Flammability:	Non-flammable solid(according to test methods of USA 16 CFR 1500.44 and Annex V of EU Directive 84/449/EEC).
Autoflammability:	Not applicable
Explosive Properties:	See "Unusual Fire and Explosion Hazards".
Oxidizing Properties:	No data available
Vapour Pressure:	Not applicable
Vapour Density:	Not applicable
Density / Secific 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:	Not applicable
Evaporating Rate:	Not applicable

SECTION 10 STABILITY AND REACTIVITY

Stability:	<input checked="" type="radio"/> Stable <input type="radio"/> Unstable
Conditions to Avoid:	None
Materials to Avoid:	Strong oxidizers
Hazardous Decomposition Products:	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.

Hazardous Polymerization: May occur Will Not occurCondition to Avoid: None**SECTION 11 TOXICOLOGICAL INFORMATION****Acute Toxicity**

Inhalation: (Data from similar toner materials) : LC50: >5mg/L/4hr (rats)

Ingestion: Oral LD50: >5000mg/kg (rats)Eye: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC based on test data of rabbits.Skin: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC based on test data of rabbits.Sensitization: No sensitizer according to Annex I of EU Directive 67/548/EEC and strong sensitizer list of FHSA.Mutagenicity: Negative (Ames Test: Salmonella typhimurium)Reproductive Toxicity: No reproductive toxic substances according to Annex I of EU Directive 67/548/EEC, California Proposition 65 and DFG.Carcinogenicity: No human carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA(USA) regulation, California Proposition 65 and Annex I of EU Directive 67/548/EEC.Others: Sub-acute Toxicity - Rats; 90 days inhalation Test
Test sample: magnetic toner
(mean volume diameter is 6.0 μ m)



Others:

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Sub-acute Toxicity: R45, R50, R53
Test sample: magnetic toner
(mean volume diameter: 4.5 μm)
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NOEL (No observed effect level): 16 mg/m3

SECTION 12 ECOLOGICAL INFORMATION

Mobility:	No data available
Persistence / Degradability:	No data available
Bioaccumulation:	No data available
Ecotoxicity:	No data available
Other Adverse Effects:	No data available

SECTION 13 DISPOSAL CONSIDERATION

Method of Disposal: The waste toner could be considered as plastic powder waste. Disposal should be subject to federal, state or local laws.

SECTION 14 TRANSPORTATION INFORMATION

UN #:	None
UN Shipping Name:	None
UN Classification:	None
UN Packing Group:	None
Special Precautions:	None

SECTION 15 REGULATION INFORMATION

EU Information

Information on the Label

Symbol&Indication: Not required.

R-Phrase: Not required.

S-Phrase: Not required.

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None
Dangerous Component(s):

Revised:



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Dangerous Component(s): None

Specific Provisions in Relation of Man or the Environment

76/769/EEC: Not regulated.

(EC)2037/2000: Not regulated.

(EEC)2445/92: Not regulated.

Others: None

USA Information

Information on the Label

Signal Word: Not required.

Hazard Warning: Not required.

Safety Advice: Not required.

Hazardous Component(s): None

SARA Title III §313:

Chemical Name

Weight

None

California Proposition 65:

Chemical Name

Weight

None

SECTION 16 OTHER INFORMATION

None

Date of Issue: 98/12/1

Revised:

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, 88/379/EEC
- EU Regulation (EC)2037/2000, (EEC)2455/92

Abbreviations:

- "EU" stands for European Union.
- "OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration.
- "ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
- "EU ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.
- "DFG MAK" stands for MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.
- "TWA" stands for Time Weighted Average.
- "IARC" stands for International Agency for Research on Cancer.
- "NTP" stands for National Toxicology Program (USA).
- "OSHA HCS" stands for Occupational Safety and Health Act, Hazard Communication Standard.
- "FHSA" stands for Federal Hazardous Substances Act.

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