

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

Product Name: PC-Cartridge for PC-20 (BLACK)

Product Code: F41-2301/2302

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

MSDS #: TC0160-0303

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		

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS - Continued

Carcinogen

Chemical Name	CAS #	Reference
None		

Other Ingredient(s)

Chemical/Generic Name	Weight %
Styrene acrylate copolymer	55-65
Iron oxide (CAS#:1317-61-9)	30-40

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Blue 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 persist, get medical attention.

Skin: Wash with soap and water.
If irritation persist, 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(°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)

SECTION 5 FIRE FIGHTING MEASURES - Continued

Fire and Explosive Properties - Continued:

Autoflammability: Not applicable

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

Oxidizing Properties: No data available

Hazardous Combustion Products: CO₂, CO

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 away from contact with oxidizing materials.
Keep container closed.

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable 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 Occur

Conditions to Avoid: None

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

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

Ingestion: No data available

Eye: No data available

Skin: No data available

Sensitization: No sensitizer according to Annex I of EU Directive 67/548/EEC and 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.

SECTION 11 TOXICOLOGICAL INFORMATION - Continued

Carcinogenicity: No human carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA(USA) regulation, California Proposition 65 and Annex I of EU Directive.

Others: Sub-acute Toxicity - Rats; 90 days inhalation Test
Test sample: magnetic toner
(mean volume diameter is 6.0 µm)
NOEL (No observed effect level): 16 mg/m3

SECTION 12 ECOLOGICAL INFORMATION

No information indicating any adverse ecological effects.
Avoid spills and dispose of in accordance with applicable laws and regulations.

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 TRANSPORT INFORMATION

UN #:	By ship:None	By air:Not identified
UN Shipping Name:	By ship:None	By air:Not identified
UN Classification:	By ship:None	By air:Not identified
UN Packing Group:	By ship:None	By air:Not identified
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): None

Specific Provisions in Relation to Protection of Man or the Environment:

76/769/EEC: Not required.

(EC)3093/94: Not regulated.

(EEC)2455/92: 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

Other Information:

None

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 and their amendments.
- EU Regulation (EC)3093/94, (EEC)2455/92 and their amendments.

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.
- "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).

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