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SECTION 1	IDENTIFICATION OF COMPANY/UNDERT		ICE/PREPAR	ATION AND	OF THE
Product Name:	Canon GPR-4 Black	Foner			
Product Code:	F42-4101-700				
Manufacturer:	Canon Inc.,30-2,Shim	omaruko 3-Chon	ne,Ohta-ku,To	kyo, Japan,	
Supplier:	Canon USA, Inc., On	e Canon Plaza, L	ake Success, N	NY, 11042	
Phone #:	1-800-OK-CANON	24 Hr.	Emergency C	CHEMTREC #	1-800-424-9300
MSDS #:	TN0399-0105				
SECTION 2	COMPOSITION/INFO	RMATION ON I	NGREDIENT	Ś	
Hazardous Ingredi	ent(s)				
Chemical Name		CAS #	Weight %	EU Symbol	EU R-Phrase
None					
Chemical Name None		USA OSHA PE	 L	ACGIH TL	V

Chemical Name	EU ILV	DFG MAK
None		



SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS - Continued

Carcinogen		
Chemical Name	CAS #	Reference
No component of this toner is listed as human carcinogen or potential carcinogen in IARC		
Monographs, NTP, OSHA regulations or Annex I		
to Directive 67/548/EEC.		
Other Ingredient(s)		
Chemical/Generic Name		Weight %
Styrene acrylate copolymer		45 - 55
Iron oxide(CAS No.: 1317-61-9)		40 - 50

SECTION 3 HAZARDS IDENTIFICATION

Emergency Black fine powder, slight plastic odor. Overview:

Potential Health Eff	fects and Symptoms:
Inhalation:	Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.
Ingestion:	Practically non-toxic based on animal testing. Ingestion is a minor route of entry for intended use of this product.
Eye:	May cause eye irritation.
Skin:	Unlikely to cause skin irritation.
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 Condition	ons Generally known to be Aggravated by Exposure: Not determined.



MATERIAL SAFETY DATA SHEET

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SECTION 4 FIRST AID MEASURES

First Aid Measu Inhalation:	res: 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 Proper	ties:
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))

SECTION 5 FIRE FIGHTING MEASURES - Continued

Canon

Fire and Explosive Proper	rties - Continued:
Autoflammability:	Not applicable
Explosive Properties:	Can form explosive dust-air mixtures when finely dispersed in air.
Oxidizing Properties:	Not available
Hazardous Combustion Products:	CO2, CO
Other Properties:	Not known

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 HAN	DLING AND STORAGE		
Handling:	Avoid breathing dust. Use with adequate ventilation.		

Storage:

Keep out of the reach of children. Keep away from oxidizing materials.

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SECTION 8 EXP	OSURE CONTROLS	S / PERSONAL PROTECTION
Exposure Guidelines:	USA OSHA(TWA/PEL ACGIH(TWA/TLV): DFG (MAK) :	 L):15mg/m3 (Total dust) 5mg/m3 (Respirable fraction) 10mg/m3 (Inhalable particulate) 3mg/m3 (Respirable particulate) 4mg/m3 (Inhalable fraction) 1.5mg/m3 (Respirable fraction) (Also refer to SECTION 2)
Engineering Controls:	Use adequate ventil	ation.
Personal Protection Ec	quipment(s):	
Respiratory Protection:	Required X No	ot Required

Eye/Face Protection:	Required	Not Required
Skin Protection:	Required	Not Required

SECTION 9 PHYSICAL AND CHEMICAL 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))
Autoflammability:	Not applicable
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 - 1.6
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

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Revised:



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SECTION 10 STABILITY AND REACTIVITY

Stability:Image: StableUnstableConditions to Avoid:NoneMaterials to Avoid:Strong oxidizersHazardous Decomposition Products:CO, CO2Hazardous Polymerization: Conditions to Avoid:Image: May OccurMay OccurWill Not Occur None				
		Strong oxidizers		
		CO, CO2		
SECTION 11 TO	DXICOL	OGICAL INFORMATION		
Acute Toxicity: Inhalation:	Estim	ate: Rat, LC50: >5mg/L/4hr		
Ingestion:	Rat, LD50 > 5000mg/kg			
Eye:	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 88/379/EEC based on test data of rabbits.			
Skin:	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 88/379/EEC based on test data of rabbits.			
Sensitization:	Not available			
Mutagenicity:	Ames Test (Salmonella typhimurium) : Negative			
Reproductive Toxicity:	Not available			



Others:

SECTION 11 TOXICOLOGICAL INFORMATION - Continued

Carcinogenicity: Not available

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/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.

SECTION 12 ECOLOGICAL INFORMATION

Mobility:	Not available
Persistence / Degradability:	Not available
Bioaccumulation:	Not available
Ecotoxicity:	Not available
Other Adverse Effects:	Not available

SECTION 13 DISPOSAL 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 holding remaining toner, unless dust-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures in air. Disposal should be subject to federal, state or local laws.

SECTION 14 TRANSPORT INFORMATION

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



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SECTION 15 REGULATORY INFORMATION

EU Information: Information on the Label:			
Symbol &	Not required		
Indication: R-Phrase:	Not required		
S-Phrase:	Not required		
Dangerous Component(s):	None		
Specific Provisior	ns in Relation to Protection of Man or the Environment:		
76/769/EEC:	Not regulated		
(EC)3093/94:	Not regulated		
(EEC)2455/92:	: Not regulated		
Others:	None		
USA Information: Information on the L	Label		
Signal Word:	Not required		
Hazard warning:	Not required		
Safety Advice:	Not required		
Hazardous Component(s):	None		
SARA Title III §313 Chemical Nat			
Chromium(III)	6		
As chromium	/ 1		
California Propositi			
Chemical Name Weight %			
None			

SECTION 16 OTHER INFORMATION

Other Information:

Canon

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

- EU Regulation (EC)3093/94, (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.

"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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