

Medical Conditions Generally known to be Aggravated by Exposure:

Not determined

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.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

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

Engineering Controls:

Use adequate ventilation.

Personal Protection Equipment(s):

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Black fine powder		
Slight plastic odor		
Not applicable		
Not applicable		
85-120 (Softening point)		
> 200		
Not applicable		
Not applicable		
Not available		
Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))		
Can form explosive dust-air mixtures when finely dispersed in air.		
Not available		
Not applicable		
Not applicable		
1.0-1.5		
Negligible		
Partially soluble in toluene and xylene.		
Not applicable		
Negligible		
Not applicable		
Not applicable		

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Canon		MSDS #: TN1540-0101
	MATERIAL SAFETY DATA SHEET	Product Code: 0436B / F42-7002
SECTION 10 STABILITY	AND REACTIVITY	
Stability:	⊠ Stable □ Unstable	
Conditions to Avoid:	None	
Materials to Avoid:	Strong oxidizers	
Hazardous Decomposition Prod	lucts: <u>CO, CO2</u>	
Hazardous Polymerization:	☐ May Occur ⊠ Will Not Occur	
Conditions to Avoid:	None	
SECTION 11 TOXICOLO	GICAL INFORMATION	
Acute Toxicity: Inhalation: Not available		
Ingestion: Estimate: Rat, LD50 > 200	00 mg/kg (See SECTION 16)	
Eye: Estimate: Rabbit, transient	slight conjunctival irritation only. (See SECTION	16)
Skin: Estimate: Rabbit, non-irrit	ant (See SECTION 16)	
Sensitization: Estimate: Guinea pig, skin	: Non-sensitizing (See SECTION 16)	
Mutagenicity: Ames Test (S. typhimurius	m, E. coli): Negative	
Reproductive Toxicity: Not available		
Carcinogenicity: The IARC evaluated carbo but sufficient animal evide chronic inhalation exposur However, there is a two-ye	on black as a Group 2B carcinogen, for which there is ence. The latter is based upon the development of lur re to powdered carbon black at levels that induce par ear inhalation study of a toner containing carbon bla exposure and tumor development in rats.	ng tumors in rats receiving rticle overload of the lung.
respirable-sized particles of is most relevant to potentia	conary response upon chronic inhalation exposure in compared to commercial toner. No pulmonary chang al human exposure. A minimal to mild degree of fib mild to moderate degree of fibrosis was observed in	ge was found at 1 mg/m^3 which rosis was noted in 22% of the

mg/m^3 .

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 ECOLOG	GICAL INFORMATION
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
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No
Special Precaution	s:None
SECTION 15	REGULATORY INFORMATION
< EU Information	>
Information on th	e Label:
Symbol & Indi	cation: Not required
R-Phrase: Not required	
S-Phrase: Not required	
Dangerous Con Not required	nponent(s):
Special Precaut Not required	ions under 1999/45/EC Annex V:
_	s in Relation to Protection of Man or the Environment:
76/769/EEC:	Not regulated
(EC)2037/2000	Not regulated
(EC)304/2003:	Not regulated
Others:	None

< USA Information >		
Information on the Label under O	SHA:	
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: <u>Chemical Name</u> None		Weight %
< Canada Information > WHMIS Controlled Product:	Not applicable (Manufactured article)	
< Australia Information > Statement of Hazardous Nature:	Not classified as hazardous according to criter	ria of NOHSC.
SECTION 16 OTHED INFOD	ΜΑΤΙΟΝ	

SECTION 16 OTHER INFORMATION

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials of this product.

Literature References:

- 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, 2000/39/EC and 2006/15/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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