

SAFETY DATA SHEET

DRAFT VERSION

1. Identification

Product identifier	HP Color LaserJet CF450A Black Print Cartridge		
Other means of identification	Not available.		
Recommended use	This product is a black toner preparation that is used in HP Color LaserJet LJ M652 / HP Color LaserJet M681 / HP Color LaserJet LJ M653 / HP Color LaserJet M682 series printers.		
Recommended restrictions	None known.		
Company identification	HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020		
	HP Inc. health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Inc. Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com		

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.
Supplemental information	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Carbon black		1333-86-4	<10
Wax	Wax	Trade Secret	<10
Amorphous silica	Amorphous silica	7631-86-9	<3
Titanium dioxide		13463-67-7	<1

4. First-aid measures	
Inhalation	Move person to fresh air immediately. If irritation persists, consult a physician.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists, consult a physician.
Ingestion	Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.
Most important symptoms/effects, acute and delayed	Not available.

5. Fire-fighting measures

5		
Suitable extinguishing media	CO2, water, or dry chemical	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	Not applicable.	
Special protective equipment and precautions for firefighters	Not available.	
Fire-fighting equipment/instructions	If fire occurs in the printer, treat as an electrical fire.	
Specific methods	None established.	
6. Accidental release me	asures	
Personal precautions, protective equipment and emergency procedures	Minimize dust generation and accumulation.	
Methods and materials for containment and cleaning up	Not available.	
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.	
7. Handling and storage		
Precautions for safe handling	Keep out of the reach of children. Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Keep away from excessive heat, sparks, and open flames.	
Conditions for safe storage,	Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store	

8. Exposure controls/personal protection

Occupational exposure limits

including any

incompatibilities

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Form Components Туре Carbon black (CAS PEL 3.5 mg/m3 1333-86-4) Titanium dioxide (CAS PEL 15 mg/m3 Total dust. 13463-67-7) **US. ACGIH Threshold Limit Values** Form Components Туре Value Carbon black (CAS TWA 3 mg/m3 Inhalable fraction. 1333-86-4) 10 mg/m3 Titanium dioxide (CAS TWA 13463-67-7)

away from strong oxidizers.

US. NIOSH: Pocket Guide t Components	Туре		Value	
Amorphous silica (CAS 7631-86-9)	TWA		6 mg/m3	
Carbon black (CAS 1333-86-4)	TWA 0.1 mg/m3			
Biological limit values	No biological exposu	ure limits noted for the ingred	dient(s).	
Exposure guidelines	USA OSHA (TWA/PE	L): 15 mg/m3 (Total Dust),	5 mg/m3 (Respirable Fraction)	
	ACGIH (TWA/TLV):	10 mg/m3 (Innalable Particu	late), 3 mg/m3 (Respirable Particulate)	
	Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10 mg/m3			
	TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion)			
	UK WEL: 10 mg/m3	(Respirable Dust), 5 mg/m3	(Inhalable Dust)	
Appropriate engineering controls	Use in a well ventila	ted area.		
Individual protection measures		protective equipment		
Eye/face protection	Not available.			
Skin protection				
Hand protection	Not available.			
Other	Not available.			
Respiratory protection	Not available.			
Thermal hazards	Not available.			
9. Physical and chemical	properties			
Appearance	Fine powder			
Physical state	Solid.			
Color	Black.			
Odor	Slight plastic odor			
Odor threshold	Not available.			
рН	Not applicable			
Melting point/freezing point	Not available.			
Initial boiling point and boiling range	Not applicable			
Flash point	Not applicable			
Evaporation rate	Not applicable			
Flammability (solid, gas)	Not available.			
Upper/lower flammability or e	xplosive limits			
Flammability limit - lower (%)	-			
Flammability limit - upper (%)	Not available.			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
Vapor pressure	Not applicable			
Solubility(ies)				
Solubility (water)	Negligible in water.	Partially soluble in toluene a	nd xylene.	
Partition coefficient	Not available.			

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Imaging Drum: Exposure to light
Incompatible materials	Strong oxidizers
Hazardous decomposition products	Carbon monoxide and carbon dioxide.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.		
Information on toxicological ef	ffects		
Acute toxicity	Based on available data, the classification criteria are not met.		
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.		
Respiratory or skin sensitization	on and a second s		
Respiratory sensitization	Based on available data, the classification criteria are not met.		
Skin sensitization	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
	Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.		
IARC Monographs. Overall Evaluation of Carcinogenicity			
Amorphous silica (CAS 76 Carbon black (CAS 1333-8 Titanium dioxide (CAS 134	2B Possibly carcinogenic to humans.		
Reproductive toxicity	Based on available data, the classification criteria are not met.		
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.		
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	Based on available data, the classification criteria are not met.		
Further information	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.		

Components	Species		Test Results	
Amorphous silica (CAS 7631-86-	9)			
Acute				
Oral				
LD50	Mouse		> 15000 mg/kg	
	Rat		> 22500 mg/kg	
Carbon black (CAS 1333-86-4)				
Acute				
Oral				
LD50	Rat		> 8000 mg/kg	
12. Ecological informat	ion			
Ecotoxicity				
Product		Species	Test Results	
HP Color LaserJet CF450A E	Black Print Cartridg	je		
Aquatic			100 // -	
Algae	ErC50	Algae	> 100 mg/l, 72 Hours	
Crustacea	EC50	Crustacea	> 100 mg/l, 48 Hours	
Fish	LC50	Fish	> 100 mg/l, 96 Hours	
Components		Species	Test Results	
Titanium dioxide (CAS 1346	3-67-7)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours	
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours	
Persistence and degradabilit	y Not available.			
Bioaccumulative potential	Not available.			
Mobility in soil	Not available.			
Other adverse effects	Not available.			
13. Disposal considerat	tions			
Disposal instructions		toner cartridge, unless dust-explosion pr		
dispersed particles may form explosive mixtures in air. Dispose of in compliance w and local regulations.		. Dispose of in compliance with federal, state		
			ogram enables simple, convenient recycling	
		kjet and LaserJet supplies. For more in our location, please visit http://www.hp.	formation and to determine if this service is com/recycle.	
14. Transport informat				
Further information		ous good under DOT, IATA, ADR, IMDG,	or RID.	
15. Regulatory informa	tion			
US federal regulations	US EPA TSCA under TSCA.	US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders		
TSCA Section 12(b) Expo	ort Notification ((40 CFR 707, Subpt. D)		
Not regulated. CERCLA Hazardous Subs	tance List (40 C	CFR 302.4)		
Not listed.				
SARA 304 Emergency re	lease notificatio	on		
Not regulated.				
CILLIA CREATER DATE	atod Substancos	E (/4 (FR 1410 1001-1050)		
OSHA Specifically Regula Not listed.	aleu Substances	(2) CIR 1910.1001 1050)		

Hazard categories	Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely haza	ardous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
US. Massachusetts RTK -	Substance List			
Amorphous silica (CAS 7 Carbon black (CAS 1333 Titanium dioxide (CAS 13	-86-4)			
Carbon black (CAS 1333) Titanium dioxide (CAS 12	-86-4)			
Amorphous silica (CAS 7 Carbon black (CAS 1333 Titanium dioxide (CAS 13 US. Rhode Island RTK	-86-4)			
Not regulated.				
US. California Proposition	65			
CARBON BLACK (AI OF RESPIRABLE SIZ 1333-86-4) TITANIUM DIOXIDE	Sition 65 - CRT: Listed date/Carcinogenic substance RBORNE, UNBOUND PARTICLES Listed: February 21, 2003 E [<= 10 MICROMETERS]) (CAS			
Regulatory information	All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.			
16. Other information, in	ncluding date of preparation or last revision			
Issue date	Draft version.			
Version #	Draft version.			
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.			
Manufacturer information	HP Inc. 11311 Chinden Boulevard Boise, ID 83714 USA (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209			

Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds



SAFETY DATA SHEET

DRAFT VERSION

1. Identification

Product identifier Other means of identification Recommended use	HP Color LaserJet CF460X-XC Black Print Cartridge Not available. This product is a black toner preparation that is used in HP Color LaserJet LJ M652 / HP Color LaserJet M681 / HP Color LaserJet LJ M653 / HP Color LaserJet M682 series printers.
Recommended restrictions	None known.
Company identification	HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020 HP Inc. health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Inc. Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.
Supplemental information	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

3. Composition/information on ingredients

ixtures			
Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Carbon black		1333-86-4	<10
Wax	Wax	Trade Secret	<10
Amorphous silica	Amorphous silica	7631-86-9	<3
Titanium dioxide		13463-67-7	<1

4. First-aid measures	
Inhalation	Move person to fresh air immediately. If irritation persists, consult a physician.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists, consult a physician.
Ingestion	Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.
Most important symptoms/effects, acute and delayed	Not available.

5. Fire-fighting measures

5	
Suitable extinguishing media	CO2, water, or dry chemical
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.
Fire-fighting equipment/instructions	If fire occurs in the printer, treat as an electrical fire.
Specific methods	None established.
6. Accidental release me	asures
Personal precautions, protective equipment and emergency procedures	Minimize dust generation and accumulation.
Methods and materials for containment and cleaning up	Not available.
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
7. Handling and storage	
Precautions for safe handling	Keep out of the reach of children. Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Keep away from excessive heat, sparks, and open flames.
Conditions for safe storage,	Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store

8. Exposure controls/personal protection

Occupational exposure limits

including any

incompatibilities

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Form Components Туре Carbon black (CAS PEL 3.5 mg/m3 1333-86-4) Titanium dioxide (CAS PEL 15 mg/m3 Total dust. 13463-67-7) **US. ACGIH Threshold Limit Values** Form Components Туре Value Carbon black (CAS TWA 3 mg/m3 Inhalable fraction. 1333-86-4) 10 mg/m3 Titanium dioxide (CAS TWA 13463-67-7)

away from strong oxidizers.

US. NIOSH: Pocket Guide t Components	Туре		Value	
Amorphous silica (CAS 7631-86-9)	TWA		6 mg/m3	
Carbon black (CAS 1333-86-4)	TWA		0.1 mg/m3	
Biological limit values	No biological exposu	ure limits noted for the ingred	dient(s).	
Exposure guidelines	USA OSHA (TWA/PE	L): 15 mg/m3 (Total Dust),	5 mg/m3 (Respirable Fraction)	
	ACGIH (TWA/TLV):	10 mg/m3 (Innalable Particu	late), 3 mg/m3 (Respirable Particulate)	
	Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10 mg/m3			
	TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion			
	UK WEL: 10 mg/m3	(Respirable Dust), 5 mg/m3	(Inhalable Dust)	
Appropriate engineering controls	Use in a well ventila	ted area.		
Individual protection measures		protective equipment		
Eye/face protection	Not available.			
Skin protection				
Hand protection	Not available.			
Other	Not available.			
Respiratory protection	Not available.			
Thermal hazards	Not available.			
9. Physical and chemical	properties			
Appearance	Fine powder			
Physical state	Solid.			
Color	Black.			
Odor	Slight plastic odor			
Odor threshold	Not available.			
рН	Not applicable			
Melting point/freezing point	Not available.			
Initial boiling point and boiling range	Not applicable			
Flash point	Not applicable			
Evaporation rate	Not applicable			
Flammability (solid, gas)	Not available.			
Upper/lower flammability or e	xplosive limits			
Flammability limit - lower (%)	-			
Flammability limit - upper (%)	Not available.			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
Vapor pressure	Not applicable			
Solubility(ies)				
Solubility (water)	Negligible in water.	Partially soluble in toluene a	nd xylene.	
Partition coefficient	Not available.			

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Imaging Drum: Exposure to light
Incompatible materials	Strong oxidizers
Hazardous decomposition products	Carbon monoxide and carbon dioxide.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.		
Information on toxicological ef	ffects		
Acute toxicity	Based on available data, the classification criteria are not met.		
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.		
Respiratory or skin sensitization)n		
Respiratory sensitization	Based on available data, the classification criteria are not met.		
Skin sensitization	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
	Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.		
IARC Monographs. Overall Evaluation of Carcinogenicity			
Amorphous silica (CAS 76 Carbon black (CAS 1333-8 Titanium dioxide (CAS 134	2B Possibly carcinogenic to humans.		
Reproductive toxicity	Based on available data, the classification criteria are not met.		
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.		
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	Based on available data, the classification criteria are not met.		
Further information	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.		

Components	Species		Test Results
Amorphous silica (CAS 7631-86	5-9)		
Acute			
Oral			
LD50	Mouse		> 15000 mg/kg
	Rat		> 22500 mg/kg
Carbon black (CAS 1333-86-4)			
Acute			
Oral			
LD50	Rat		> 8000 mg/kg
12. Ecological informa	tion		
Ecotoxicity			
Product		Species	Test Results
HP Color LaserJet CF460X-	-XC Black Print Cart	ridge	
Aquatic			
Algae	ErC50	Algae	> 100 mg/l, 72 Hours
Crustacea	EC50	Crustacea	> 100 mg/l, 48 Hours
Fish	LC50	Fish	> 100 mg/l, 96 Hours
Components		Species	Test Results
Titanium dioxide (CAS 134	63-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
Persistence and degradabil	ity Not available.		
Bioaccumulative potential	Not available.		
Mobility in soil	Not available.		
Other adverse effects	Not available.		
13. Disposal considera	ations		
Disposal instructions		toner cartridge, unless dust-explosion pl	
	dispersed particles may form explosive mixtures in air. Dispose of in compliance with fe and local regulations.		. Dispose of in compliance with federal, state
	and local regi	JIATONS.	
			ogram enables simple, convenient recycling o
		kjet and LaserJet supplies. For more in our location, please visit http://www.hp.	formation and to determine if this service is com/recycle.
14. Transport informa			,
Further information		ous good under DOT, IATA, ADR, IMDG,	or RID.
15. Regulatory inform	ation		
US federal regulations		Inventory: All chemical substances in t	his product comply with all rules or orders
	under TSCA.		
TSCA Section 12(b) Exp	oort Notification	(40 CFR 707, Subpt. D)	
Not regulated. CERCLA Hazardous Sub	ostance List (40 C	CFR 302.4)	
Not listed.			
SARA 304 Emergency r	elease notificatio	on	
Not regulated.			
OSHA Specifically Requ	lated Substances	s (29 CFR 1910.1001-1050)	

Hazard categories	Authorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely haza	ardous substance		
Not listed.			
SARA 311/312 Hazardous chemical	No		
Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
US. Massachusetts RTK -	Substance List		
Amorphous silica (CAS 7 Carbon black (CAS 1333 Titanium dioxide (CAS 13	-86-4)		
Carbon black (CAS 1333) Titanium dioxide (CAS 12	-86-4)		
Amorphous silica (CAS 7 Carbon black (CAS 1333 Titanium dioxide (CAS 13 US. Rhode Island RTK	-86-4)		
Not regulated.			
US. California Proposition	65		
CARBON BLACK (AI OF RESPIRABLE SIZ 1333-86-4) TITANIUM DIOXIDE	Sition 65 - CRT: Listed date/Carcinogenic substance RBORNE, UNBOUND PARTICLES Listed: February 21, 2003 E [<= 10 MICROMETERS]) (CAS		
Regulatory information	All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.		
16. Other information, in	ncluding date of preparation or last revision		
Issue date	Draft version.		
Version #	Draft version.		
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.		
Manufacturer informationHP Inc.11311 Chinden BoulevardBoise, ID 83714 USA(Direct) 1-503-494-7199(Toll-free within the US) 1-800-457-4209			

Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds



SAFETY DATA SHEET

DRAFT VERSION

1. Identification

Product identifier Other means of identification Recommended use	HP Color LaserJet CF470X-XC Black Print Cartridge Not available. This product is a black toner preparation that is used in HP Color LaserJet LJ M652 / HP Color LaserJet M681 / HP Color LaserJet LJ M653 / HP Color LaserJet M682 series printers.
Recommended restrictions	None known.
Company identification	HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020 HP Inc. health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Inc. Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.
Supplemental information	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

3. Composition/information on ingredients

ixtures			
Chemical name	Common name and synonyms	CAS number	%
Styrene acrylate copolymer		Trade Secret	<85
Carbon black		1333-86-4	<10
Wax	Wax	Trade Secret	<10
Amorphous silica	Amorphous silica	7631-86-9	<3
Titanium dioxide		13463-67-7	<1

4. First-aid measures	
Inhalation	Move person to fresh air immediately. If irritation persists, consult a physician.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists, consult a physician.
Ingestion	Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.
Most important symptoms/effects, acute and delayed	Not available.

5. Fire-fighting measures

5 5	
Suitable extinguishing media	CO2, water, or dry chemical
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.
Fire-fighting equipment/instructions	If fire occurs in the printer, treat as an electrical fire.
Specific methods	None established.
6. Accidental release me	asures
Personal precautions, protective equipment and emergency procedures	Minimize dust generation and accumulation.
Methods and materials for containment and cleaning up	Not available.
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
7. Handling and storage	
Precautions for safe handling	Keep out of the reach of children. Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Keep away from excessive heat, sparks, and open flames.
Conditions for safe storage,	Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store

8. Exposure controls/personal protection

Occupational exposure limits

including any

incompatibilities

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Form Components Туре Carbon black (CAS PEL 3.5 mg/m3 1333-86-4) Total dust. Titanium dioxide (CAS PEL 15 mg/m3 13463-67-7) **US. ACGIH Threshold Limit Values** Form Components Туре Value Carbon black (CAS TWA 3 mg/m3 Inhalable fraction. 1333-86-4) 10 mg/m3 Titanium dioxide (CAS TWA 13463-67-7)

away from strong oxidizers.

US. NIOSH: Pocket Guide t Components	Туре		Value
Amorphous silica (CAS 7631-86-9)	TWA		6 mg/m3
Carbon black (CAS 1333-86-4)	TWA		0.1 mg/m3
Biological limit values	No biological exposu	ure limits noted for the ingred	dient(s).
Exposure guidelines	USA OSHA (TWA/PE	L): 15 mg/m3 (Total Dust),	5 mg/m3 (Respirable Fraction)
	ACGIH (TWA/TLV):	10 mg/m3 (Innalable Particu	late), 3 mg/m3 (Respirable Particulate)
	Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10 mg/m3		
	TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion		
	UK WEL: 10 mg/m3	(Respirable Dust), 5 mg/m3	(Inhalable Dust)
Appropriate engineering controls	Use in a well ventila	ted area.	
Individual protection measures		protective equipment	
Eye/face protection	Not available.		
Skin protection			
Hand protection	Not available.		
Other	Not available.		
Respiratory protection	Not available.		
Thermal hazards	Not available.		
9. Physical and chemical	properties		
Appearance	Fine powder		
Physical state	Solid.		
Color	Black.		
Odor	Slight plastic odor		
Odor threshold	Not available.		
рН	Not applicable		
Melting point/freezing point	Not available.		
Initial boiling point and boiling range	Not applicable		
Flash point	Not applicable		
Evaporation rate	Not applicable		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or e	xplosive limits		
Flammability limit - lower (%)	-		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor pressure	Not applicable		
Solubility(ies)			
Solubility (water)	Negligible in water.	Partially soluble in toluene a	nd xylene.
Partition coefficient	Not available.		

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Imaging Drum: Exposure to light
Incompatible materials	Strong oxidizers
Hazardous decomposition products	Carbon monoxide and carbon dioxide.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.		
Information on toxicological ef	ffects		
Acute toxicity	Based on available data, the classification criteria are not met.		
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.		
Respiratory or skin sensitization	on and a second s		
Respiratory sensitization	Based on available data, the classification criteria are not met.		
Skin sensitization	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
	Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.		
IARC Monographs. Overall Evaluation of Carcinogenicity			
Amorphous silica (CAS 76 Carbon black (CAS 1333-8 Titanium dioxide (CAS 134	2B Possibly carcinogenic to humans.		
Reproductive toxicity	Based on available data, the classification criteria are not met.		
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.		
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	Based on available data, the classification criteria are not met.		
Further information	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.		

Components	Species		Test Results	
Amorphous silica (CAS 7631-86	5-9)			
Acute				
Oral				
LD50	Mouse		> 15000 mg/kg	
	Rat		> 22500 mg/kg	
Carbon black (CAS 1333-86-4)				
Acute				
Oral				
LD50	Rat		> 8000 mg/kg	
12. Ecological informa	tion			
Ecotoxicity				
Product		Species	Test Results	
HP Color LaserJet CF470X-	XC Black Print Cart	ridge		
Aquatic				
Algae	ErC50	Algae	> 100 mg/l, 72 Hours	
Crustacea	EC50	Crustacea	> 100 mg/l, 48 Hours	
Fish	LC50	Fish	> 100 mg/l, 96 Hours	
Components		Species	Test Results	
Titanium dioxide (CAS 134	63-67-7)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours	
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours	
Persistence and degradabil	ity Not available.			
Bioaccumulative potential	Not available.			
Mobility in soil	Not available.			
Other adverse effects	Not available.			
13. Disposal considera	itions			
Disposal instructions		toner cartridge, unless dust-explosion p		
	dispersed particles may form explosive mixtures in air. Dispose of in compliance with fed and local regulations.		. Dispose of in compliance with federal, state	
			ogram enables simple, convenient recycling	
		kjet and LaserJet supplies. For more in our location, please visit http://www.hp.	formation and to determine if this service is com/recycle.	
14. Transport informa	tion			
Further information	Not a danger	ous good under DOT, IATA, ADR, IMDG,	or RID.	
15. Regulatory inform	ation			
US federal regulations	US EPA TSCA under TSCA.	US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders		
TSCA Section 12(b) Exp	ort Notification ((40 CFR 707, Subpt. D)		
Not regulated. CERCLA Hazardous Sub	stance List (40 C	FR 302.4)		
Not listed.		·····		
SARA 304 Emergency re	elease notificatio	n		
Not regulated.				
OSHA Specifically Regu	lated Substances	s (29 CFR 1910.1001-1050)		

Hazard categories	Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely haza	ardous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
US. Massachusetts RTK -	Substance List			
Amorphous silica (CAS 7 Carbon black (CAS 1333 Titanium dioxide (CAS 13	-86-4)			
Carbon black (CAS 1333) Titanium dioxide (CAS 12	-86-4)			
Amorphous silica (CAS 7 Carbon black (CAS 1333 Titanium dioxide (CAS 13 US. Rhode Island RTK	-86-4)			
Not regulated.				
US. California Proposition	65			
CARBON BLACK (AI OF RESPIRABLE SIZ 1333-86-4) TITANIUM DIOXIDE	Sition 65 - CRT: Listed date/Carcinogenic substance RBORNE, UNBOUND PARTICLES Listed: February 21, 2003 E [<= 10 MICROMETERS]) (CAS			
Regulatory information	All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.			
16. Other information, in	ncluding date of preparation or last revision			
Issue date	Draft version.			
Version #	Draft version.			
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.			
Manufacturer information	HP Inc. 11311 Chinden Boulevard Boise, ID 83714 USA (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209			

Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds