

SAFETY DATA SHEET

DRAFT VERSION

1. Identification

Product identifier HP Color LaserJet CF452A Yellow Print Cartridge

Other means of identification Not available.

Recommended useThis product is a yellow toner preparation that is used in HP Color LaserJet M652 / HP Color

LaserJet M681 / HP Color LaserJet M653 / HP Color LaserJet M682 series printers.

Recommended restrictions
Company identification

None known.

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

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP,

OSHA or ACGIH.

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
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Titanium dioxide		13463-67-7	<1

4. First-aid measures

Inhalation Move person to fresh air immediately. If irritation persists, consult a physician.

Material name: HP Color LaserJet CF452A Yellow Print Cartridge 14222 Version #: 00 Issue date: Draft version.

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

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 measures

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,

including any incompatibilities Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store

away from strong oxidizers.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	туре	vaiue	FOIIII
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.

US. ACGIH Threshold Limit Values

Components	Туре	Value
Titanium dioxide (CAS	TWA	10 mg/m3
13463-67-7)		

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)

ACGIH (TWA/TLV): 10 mg/m3 (Inhalable Particulate), 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 ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Hand protectionNot available.OtherNot available.Respiratory protectionNot available.Thermal hazardsNot available.

9. Physical and chemical properties

Appearance Fine powder
Physical state Solid.
Color Yellow

Odor Slight plastic odor
Odor threshold Not available.

PH Not applicable

Melting point/freezing point Not available.

Initial boiling point and Not applicable

boiling range

Flash point Not applicable

Evaporation rate Not applicable **Flammability (solid, gas)** Not available. **Upper/lower flammability or explosive limits**

Flammability limit - lower

Not flammable

(%)

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 and xylene.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperatureNot applicableDecomposition temperature> 392 °F (> 200 °C)

Viscosity Not applicable

Other information

Percent volatile 0 % estimated

Softening point 176 - 266 °F (80 - 130 °C)

Specific gravity 1 - 1.2

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 effects

Acute toxicityBased on available data, the classification criteria are not met.Skin corrosion/irritationBased on available data, the classification criteria are not met.Serious eye damage/eyeBased on available data, the classification criteria are not met.

irritation

Respiratory or skin sensitization

Respiratory sensitizationBased on available data, the classification criteria are not met. **Skin sensitization**Based on available data, the classification criteria are not met.

Germ cell mutagenicityNegative, 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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Reproductive toxicityBased on available data, the classification criteria are not met. **Specific target organ toxicity**Based on available data, the classification criteria are not met.

- single exposure

Aspiration hazard

Further information

Specific target organ toxicity

- repeated exposure

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

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.

12. Ecological information

Ecotoxicity

Product		Species	Test Results
HP Color LaserJet CF452A Ye	ellow Print Cartrid	ge	
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 13463	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
sistence and degradability	Not available.		
accumulative potential	Not available.		
bility in soil	Not available.		

Material name: HP Color LaserJet CF452A Yellow Print Cartridge

14222 Version #: 00 Issue date: Draft version.

13. Disposal considerations

Disposal instructions

Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle.

14. Transport information

Further information

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory information

US federal regulations

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical
Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Titanium dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

Titanium dioxide (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Titanium dioxide (CAS 13463-67-7)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

TITANIUM DIOXIDE (AIRBORNE, UNBOUND Listed: September 2, 2011

PARTICLES OF RESPIRABLE SIZE) (CAS 13463-67-7)

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, including 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 HP Color LaserJet CF462X-XC Yellow Print Cartridge

Other means of identification Not available.

Recommended use This product is a yellow toner preparation that is used in HP Color LaserJet M652 / HP Color

LaserJet M681 / HP Color LaserJet M653 / HP Color LaserJet M682 series printers.

Recommended restrictions Company identification

HP Inc.

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(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. Not available. Response Not available. **Storage** Not available. **Disposal**

Hazard(s) not otherwise

classified (HNOC)

None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP,

OSHA or ACGIH.

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
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Titanium dioxide		13463-67-7	<1

4. First-aid measures

Inhalation Move person to fresh air immediately. If irritation persists, consult a physician.

Material name: HP Color LaserJet CF462X-XC Yellow Print Cartridge 14226 Version #: 00 Issue date: Draft version.

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

Suitable extinguishing media

Unsuitable extinguishing

media

CO2, water, or dry chemical

None known.

Not applicable.

Not available.

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire-fighting

equipment/instructions

If fire occurs in the printer, treat as an electrical fire.

Minimize dust generation and accumulation.

Specific methods None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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,

including any incompatibilities

Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store

away from strong oxidizers.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Titanium dioxide (CAS	PEL	15 mg/m3	Total dust.
13463-67-7)			

US. ACGIH Threshold Limit Values

Components	Туре	Value
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)

ACGIH (TWA/TLV): 10 mg/m3 (Inhalable Particulate), 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 ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Hand protectionNot available.OtherNot available.Respiratory protectionNot available.Thermal hazardsNot available.

9. Physical and chemical properties

Appearance Fine powder
Physical state Solid.
Color Yellow

Odor Slight plastic odor
Odor threshold Not available.

PH Not applicable

Melting point/freezing point Not available.

Initial boiling point and Not applicable

boiling range

нос арріісавіе

Flash point

Evaporation rate

Not applicable

Not applicable

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not flammable

(%)

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 and xylene.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature Not applicable

Decomposition temperature > 392 °F (> 200 °C)

Viscosity Not applicable

Other information

Percent volatile 0 % estimated

Softening point 176 - 266 °F (80 - 130 °C)

Specific gravity 1 - 1.2

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 effects

Acute toxicityBased on available data, the classification criteria are not met.Skin corrosion/irritationBased on available data, the classification criteria are not met.Serious eye damage/eyeBased on available data, the classification criteria are not met.

irritation

Respiratory or skin sensitization

Respiratory sensitizationBased on available data, the classification criteria are not met. **Skin sensitization**Based on available data, the classification criteria are not met.

Germ cell mutagenicityNegative, 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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Reproductive toxicityBased on available data, the classification criteria are not met. **Specific target organ toxicity**Based on available data, the classification criteria are not met.

- single exposure

Aspiration hazard

Further information

Specific target organ toxicity

- repeated exposure

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

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.

12. Ecological information

Ecotoxicity

Product		Species	Test Results
HP Color LaserJet CF462X-XC	Yellow Print Car	· ·	
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 13463	-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
sistence and degradability	Not available.		
accumulative potential	Not available.		
bility in soil	Not available.		

SDS US

13. Disposal considerations

Disposal instructions

Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle.

14. Transport information

Further information

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory information

US federal regulations

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical
Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Titanium dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

Titanium dioxide (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Titanium dioxide (CAS 13463-67-7)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

TITANIUM DIOXIDE (AIRBORNE, UNBOUND Listed: September 2, 2011

PARTICLES OF RESPIRABLE SIZE) (CAS 13463-67-7)

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, including date of preparation or last revision

Issue date

Draft version.

Version # Draft version.

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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.

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Explanation of abbreviations

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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 HP Color LaserJet CF472X-XC Yellow Print Cartridge

Other means of identification Not available.

Recommended useThis product is a yellow toner preparation that is used in HP Color LaserJet M652 / HP Color

LaserJet M681 / HP Color LaserJet M653 / HP Color LaserJet M682 series printers.

Recommended restrictions Company identification

HP Inc.

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United States

Telephone 650-857-5020

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(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

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP,

OSHA or ACGIH.

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
Wax	Wax	Trade Secret	<10
Pigment	Pigment	Trade Secret	<5
Titanium dioxide		13463-67-7	<1

4. First-aid measures

Inhalation Move person to fresh air immediately. If irritation persists, consult a physician.

Material name: HP Color LaserJet CF472X-XC Yellow Print Cartridge 14231 Version #: 00 Issue date: Draft version.

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

least 15 minutes or until particles are removed. If irritation persists, consult a physician.

Rinse mouth out with water. Drink one to two glasses of water. If symptoms occur, consult a Ingestion

physician.

Most important

symptoms/effects, acute and

delayed

Not available.

5. Fire-fighting measures

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 measures

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,

including any incompatibilities Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store

away from strong oxidizers.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Titanium dioxide (CAS	PEL	15 mg/m3	Total dust.
13463-67-7)			

US. ACGIH Threshold Limit Values

Components	Туре	Value
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s). **Exposure guidelines** USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)

ACGIH (TWA/TLV): 10 mg/m3 (Inhalable Particulate), 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 ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Not available. **Hand protection** Other Not available. Not available. **Respiratory protection** Thermal hazards Not available.

9. Physical and chemical properties

Appearance Fine powder **Physical state** Solid. Color Yellow

Odor Slight plastic odor **Odor threshold** Not available. Not applicable рH Melting point/freezing point Not available. Initial boiling point and Not applicable

boiling range

Flash point Not applicable **Evaporation rate** Not applicable Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not flammable

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 and xylene.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature Not applicable **Decomposition temperature** > 392 °F (> 200 °C)

Viscosity Not applicable

Other information

Percent volatile 0 % estimated

176 - 266 °F (80 - 130 °C) Softening point

Specific gravity 1 - 1.2

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 effects

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

Based on available data, the classification criteria are not met.

irritation

Respiratory or skin sensitization

Respiratory sensitizationBased on available data, the classification criteria are not met. **Skin sensitization**Based on available data, the classification criteria are not met.

Germ cell mutagenicityNegative, 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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Reproductive toxicityBased on available data, the classification criteria are not met. **Specific target organ toxicity**Based on available data, the classification criteria are not met.

- single exposure

Specific target organ toxicity

Based on available data, the classification criteria are not met.

repeated exposure
 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.

12. Ecological information

Ecotoxicity

Product		Species	Test Results
HP Color LaserJet CF472X-X0	Yellow Print Car	tridge	
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 13463	-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
sistence and degradability	Not available.		
accumulative potential	Not available.		
bility in soil	Not available.		

SDS US

13. Disposal considerations

Disposal instructions

Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle.

14. Transport information

Further information

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory information

US federal regulations

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders

under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical

Other federal regulations
Safe Drinking Water Act

er Act Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Titanium dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

Titanium dioxide (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Titanium dioxide (CAS 13463-67-7)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

TITANIUM DIOXIDE (AIRBORNE, UNBOUND Listed: September 2, 2011

PARTICLES OF RESPIRABLE SIZE) (CAS 13463-67-7)

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, including date of preparation or last revision

Issue date

Draft version.

14231 Version #: 00 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.

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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