



SAFETY DATA SHEET

1. Product and company identification

Product name HP Color LaserJet CF452A Yellow Print Cartridge
Company identification HP New Zealand
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Recommended use and Limitations on use

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.

2. Hazards identification

GHS classification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements

Symbols None.
Signal word None.
Hazard statement None.

Precautionary statement

Prevention None.
Response None.
Storage None.
Disposal None.

Other hazards

This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC) 1907/2006. None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.

Supplemental information None.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property	CAS Number	Concentration (%)
Styrene acrylate copolymer	Trade Secret	<85
Wax	Wax Trade Secret	<10
Pigment	Pigment Trade Secret	<5

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.
Potential delayed effects	Not available.
Personal protection for first-aid responders	Not available.
Notes to physician	Not available.

5. Fire-fighting measures

Extinguishing media	CO2, water, or dry chemical
Extinguishing media to avoid	None known.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Special fire fighting procedures	If fire occurs in the printer, treat as an electrical fire.
Protection of fire-fighters	Not available.
Hazards from combustion products	Carbon monoxide and carbon dioxide.
Specific methods	None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Minimize dust generation and accumulation.
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
Spill cleanup methods	Slowly vacuum or sweep the material into a bag or other sealed container. Clean remainder with a damp cloth or vacuum cleaner. If a vacuum is used, the motor must be rated as dust explosion-proof. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with federal, state, and local regulations.

7. Handling and storage

Handling	
Precautions	Not available.
Safe handling advice	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.
Prevention of fire and explosion	Not available.
Storage	
Suitable storage conditions	Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.
Incompatible materials	Not available.

8. Exposure controls/personal protection

Exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	, 5 mg/m3 (Respirable Fraction) , 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)
Engineering controls	Use in a well ventilated area.
Personal protective equipment	
Respiratory protection	Not available.
Skin protection	Not available.
Eye/face protection	Not available.

Radioactive or thermal hazards	Not available.
Hygiene measures	Not available.

9. Physical and chemical properties

Appearance	Fine powder
Physical state	Solid.
Form	solid
Color	Yellow
Odor	Slight plastic odor
Odor threshold	Not available.
pH	Not applicable
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not flammable
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable
Vapor density	Not applicable
Evaporation rate	Not applicable
Solubility(ies)	
Solubility (water)	Negligible in water. Partially soluble in toluene and xylene.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	> 392 °F (> 200 °C)
Viscosity	Not applicable
Softening point	176 - 266 °F (80 - 130 °C)
Percent volatile	0 % estimated
Other data	
Oxidizing properties	No information available.
Specific gravity	1 - 1.2

10. Stability and reactivity

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

11. Toxicological information

Information on likely routes of exposure

Ingestion	Ingestion is not a likely route of exposure.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Contact with skin may result in mild irritation.
Eye contact	Contact with eyes may result in mild irritation.
Acute toxicity	Based on available data, the classification criteria are not met.
Routes of exposure	Not available.
Symptoms	Not available.
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 sensitizer	Based on available data, the classification criteria are not met.
Skin sensitizer	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.
Toxic to reproduction	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.
Chronic effects	Not available.
Relevant negative data	Not available.
Other 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

Ecotoxicological data

Product	Species	Test Results
CF452A		
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
Ecotoxicity	LC50: > 100 mg/l, Fish, 96.00 Hours	
Persistence and degradability	Not available.	
Bioaccumulation	Not available.	
Partition coefficient n-octanol/water (log Kow)	Not available.	
Bioconcentration factor (BCF)	Not available.	
Mobility	Not available.	
Other hazardous effects	This product has not been tested for ecological effects.	

13. Disposal considerations

Disposal methods/information	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 .
Special precautions	Not available.

14. Transport information

Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
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15. Regulatory information

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.
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16. Other information

References	Not available.
Issued by	Not available.
Prepared by	Not available.

Disclaimer

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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