

1.0 Product and Company Identification

Identification of the preparation HP Color LaserJet Cyan Print

Company Identification Cartridge Q2681A
Hewlett-Packard Company

11311 Chinden Boulevard

Boise, Idaho 83714

United States

Emergency telephone number Hewlett-Packard Health Effects Line 1-800-457-4209 (USA and Canada) Intl: +1-503-494-7199 (all other areas)

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General information telephone number

1-208-323-2551 (USA and Canada) Intl: +1-208-323-2551 (all other areas)

Local Contact Information

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Bracknell, Berkshire, RG12 1HN

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Hazard Rating	US NFPA/HMIS
Health	1
Flammability	1
Instability/Reactivity	0
Special	N/A

2.0 Composition/Information on Ingredients

This product is a cyan print cartridge that is used in Hewlett-Packard Color LaserJet 3700 series printers.

Toner	CAS Number	EU	% by	Risk
Component/Substance		Number	Weight	Phrases
Styrene Acrylate	=	-	75 - 85	-
Copolymer				
Wax	=	-	5 - 10	-
Copper Compound	-	-	1 – 5	-
			(as Cu: 0.1-	
			0.5)	
Amorphous silica	7631-86-9	231-545-4	1 – 2	-



Image Drum Component/Substance	CAS Number	EU Number	% by Weight	Risk Phrases
Aluminum alloy	-	-	95.0 – 99.5	-
Polyester resin	-	-	0.2 - 1.0	-
Aryl amine derivative	-	-	0.2 - 1.0	

3.0 Hazard Identification

This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, and as amended.

Routes of Exposure <u>Toner & Image drum</u> - Inhalation, Ingestion, skin and

eyes.

Acute Health Hazards

Inhalation: <u>Toner</u> - Respiratory tract irritation may occur with

exposure to large amounts of dust.

Image drum - Not an applicable route of entry for

intended use.

Ingestion: <u>Toner</u> - Low acute toxicity. Ingestion is a minor route of

entry for intended use of this product.

<u>Image drum</u> - Not an applicable route of entry for

intended use.

Skin: <u>Toner & Image drum</u> - Unlikely to cause skin irritation.

Eyes: *Toner* - May cause transient slight irritation.

Image drum - Not applicable under intended use.

Chronic Health Hazards Toner - Prolonged inhalation of excessive amounts of

any dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive

amounts of dust.

Image drum - None known.

Carcinogenicity Toner & Image drum - Refer to Section 11.

4.0 First Aid Measures

Inhalation: Toner - Move person to fresh air immediately. If

symptoms occur, consult a physician.

Image drum - Not applicable.



Ingestion: Toner - Rinse mouth out with water. Drink one to two

glasses of water. If symptoms occur, consult a

physician immediately.

Image drum - Not applicable.

Skin: <u>Toner & Image drum</u> - Wash affected areas with soap

and water. If irritation persists, consult a physician.

Eyes: *Toner* - Do not rub eyes. Immediately flush with large

amounts of clean, lukewarm water (low pressure) for at

least 5 minutes or until particles are removed. If

irritation persists, consult a physician.

Image drum - Not applicable.

5.0 Fire Fighting Measures

Extinguishing media <u>Toner</u> - CO₂, water, dry chemical

Image drum - CO₂, dry chemical

Unsuitable Extinguishing <u>Toner</u> – None

Media Image drum - Water or foam

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

Procedures * Do Not extinguish with water or foam.*

Unusual fire and explosion <u>Toner</u> - Like most organic material in powder form,

hazards toner can form explosive dust-air mixtures when

finely dispersed in air. Image drum – None

Auto-ignition temperature *Toner* - Not available

Image drum - Not applicable

Flashpoint (method) <u>Toner & Image drum</u> - Not applicable

Hazardous Combustion *Toner* - CO, CO₂

Products Image drum - CO, CO₂, NO_X

6.0 Accidental release measures

Spill or leak procedures *Toner* - Avoid breathing dust. Minimize the release of

particles. Slowly 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 waste toner in accordance with local requirements.

Image drum - Not applicable.



Environmental precautions Toner - Do not discharge into drains (See also Section

13, Disposal Considerations).

Image drum - See section 13 Disposal Considerations.

7.0 **Handling and Storage**

Advice on safe handling and protection against fire

Toner - Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Use with

adequate ventilation. Keep away from excessive heat,

sparks, and open flames.

Image drum - None

storage compatibility

Requirements for storage *Toner* - Keep out of the reach of children. Keep

rooms and advise on container closed and store at room temperature. Keep

away from strong oxidizers.

Image drum - Maintain storage temperature less than

45°C.

8.0 Exposure control/ personal protection

Exposure Limit Values

USA OSHA (TWA/PEL): Toner - 15 mg/m³ (Total Dust)

Image drum - None

Toner - 5 mg/m³ (Respirable Fraction)

Image drum - None

ACGIH (TWA/TLV): Toner - 10 mg/m³ (Inhalable Particulate)

Image drum - None

Toner - 3 mg/m³ (Respirable Particulate)

Image drum - None

Toner - 4 mg/m³ (Einatembare Partikel) TRGS 900 (Luftgrenzwert):

Image drum - None

Toner - 1.5 mg/m³ (Alveolengängige

Fraktion)

Image drum - None

Copper compound: Toner – DFG MAK – 1.0 mg/m³ (Inhalable

fraction) Cu and its compounds.

Image drum - None

Amorphous silica: Toner – USA OSHA PEL - 20 mppcf,

 $80(\text{mg/m}^3)$ /% SiO_2 (TWA): ACGIH TLV - 10 mg/m³ (TWA)



Image drum - None

Exposure Controls <u>Image drum</u> - Not required under normal

conditions.

Respiratory protection <u>Toner</u> - Not required under intended use.

Ventilation *Toner* - Good general ventilation should be

sufficient under intended use.

Protective gloves <u>Toner</u> - Not required under intended use.

Eye protection *Toner* - Not required under intended use.

Other protective equipment <u>Toner</u> - Not required under intended use.

9.0 Physical and chemical properties

pH <u>Toner & Image drum</u> - Not applicable.

Boiling point *Toner & Image drum* - Not applicable.

Melting point <u>Toner</u>: 100 - 150°C (Softening Point)

Image drum: >100°C

Flammability <u>Toner</u> - Non-flammable solid (according to test

methods of EU Directive 92/69/EEC and as

amended, A10 Flammability (Solids).

Image drum – Not applicable.

Explosive properties Toner - Toner material, like most organic material in

powder form, is capable of creating a dust

explosion.

Image drum - None

Oxidizing properties <u>Toner & Image drum</u> - No data available.

Vapor Pressure <u>Toner & Image drum</u> - Not applicable.

Specific gravity (H₂O=1) Toner - 1.0 - 1.2

Image drum - No data available.

Solubility in water *Toner* - Negligible

Image drum - Not soluble.

Solubility in organic *Toner* - Partially soluble in toluene and xylene.

solvents *Image drum* - Partially soluble in ketones, esters and

aromatic solvents.



Partition coefficient <u>Toner</u> - Not applicable.

Image drum – Not soluble in water and n-octanol.

Viscosity <u>Toner & Image drum</u> - Not applicable.

Vapor density *Toner & Image drum* - Not applicable.

Evaporation rate <u>Toner & Image drum</u> - Not applicable.

Physical state *Toner* - Fine powder

Image drum - Viridian aluminum cylinder

Color *Toner* - Cyan

Image drum - Greenish blue

Odor *Toner* - Slight plastic odor

Image drum - Odorless

Other Toner - Decomposition Temperature: >200 °C

Image drum - None known

10.0 Stability and reactivity

Stability Toner & Image drum - Stable under normal storage

conditions.

Incompatibilities *Toner* - Strong oxidizers

Image drum - None

Hazardous decomposition Toner - CO, CO₂

products Image drum - CO, CO₂, NO_X

Hazardous polymerization <u>Toner & Image drum</u> - Will not occur.

11.0 **Toxicological information**

Refer to Section 3 for potential heath effects and Section 4 for first aid measures

Ingestion: <u>Toner</u> - LD₅₀: orl-rat>2000 mg/kg, not harmful.

Image drum coating – No data available.

Inhalation: *Toner & Image drum* - No data available.

Eye contact: Toner & Image drum coating - Not classified as

irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and

as amended.



Skin contact: <u>Toner</u> - Not classified as irritant, according to OSHA

Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended. *Image drum coating -* No data available.

Mutagenicity: Toner & Image drum - - Negative, does not indicate

mutagenic potential (Ames Test: Salmonella

typhimurium).

Carcinogenicity: *Toner* - Not a known or suspected carcinogen

> according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, and Proposition 65

(California).

Image drum coating - Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, and

Proposition 65 (California).

Reproductive Toxicity: Toner - Not classified as toxic according to EU

Directive 67/548/EEC and as amended, California

Prop. 65, and DFG (Germany).

Image drum coating - No data available.

Sensitization: *Toner & Image drum - -* Not classified as a sensitizer

according to EU Directive 67/548/EEC and as

amended, and OSHA HCS (US).

Chronic Toxicity: *Toner & Image drum* – None

Other: Toner & Image drum - None

12.0 **Ecological Information**

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

13.0 **Disposal considerations**

Do not put toner or print cartridge into fire; heated toner may cause severe burns. Do not shred print 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 regulation.

14.0 **Transportation information**

Not a regulated article under DOT, IATA, ADR, or RID

UN Number <u>Toner & Image drum</u> - None



Class Toner & Image drum - None

Proper Shipping Name Toner & Image drum - None

Packing Group <u>Toner & Image drum</u> - None

Special Precautions Toner & Image drum - None

15.0 Regulatory information

US EPA TSCA Inventory *Toner & Image drum* - All chemical substances in

this product comply with all rules or orders under

TSCA.

US EPA TSCA 12(b) *Toner -* Contains p-Xylene - [CAS No. 106-42-3]

Image drum – None

US California Proposition 65 <u>Toner & Image drum</u> – None

EU Notification <u>Toner & Image drum</u> - All components in this

product are compliant with EU Chemical Inventory

regulations.

EU R&S Phrase Information *Toner & Image drum* - No European Risk Phrases

(labeling data)

Dangerous Components <u>Toner & Image drum</u> - None

(CAS No.) wt% USA Labeling

Symbol

Symbol <u>Toner & Image drum</u> - Not required

Hazard Warning <u>Toner & Image drum</u> - Not required

Safety Advice <u>Toner & Image drum</u> - Not required

Hazardous Component(s) <u>Toner & Image drum</u> – None

16.0 Other information

Date Prepared: July 1, 2004

HP-DMS Document Control

Number:

Revision Information:

EU Information This MSDS was prepared in compliance with EU

Directive 91/155/EEC as amended by 2001/58/EC and

USA OSHA Hazard Communications regulations

(29CFR1910:1200).

DISCLAIMER: This Material Safety Data Sheet (MSDS) is provided without charge to customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation of this MSDS and is believed to be accurate. It should not be



Material Safety Data Sheet
construed as guaranteeing specific properties of the product as described or its suitability for a particular application.